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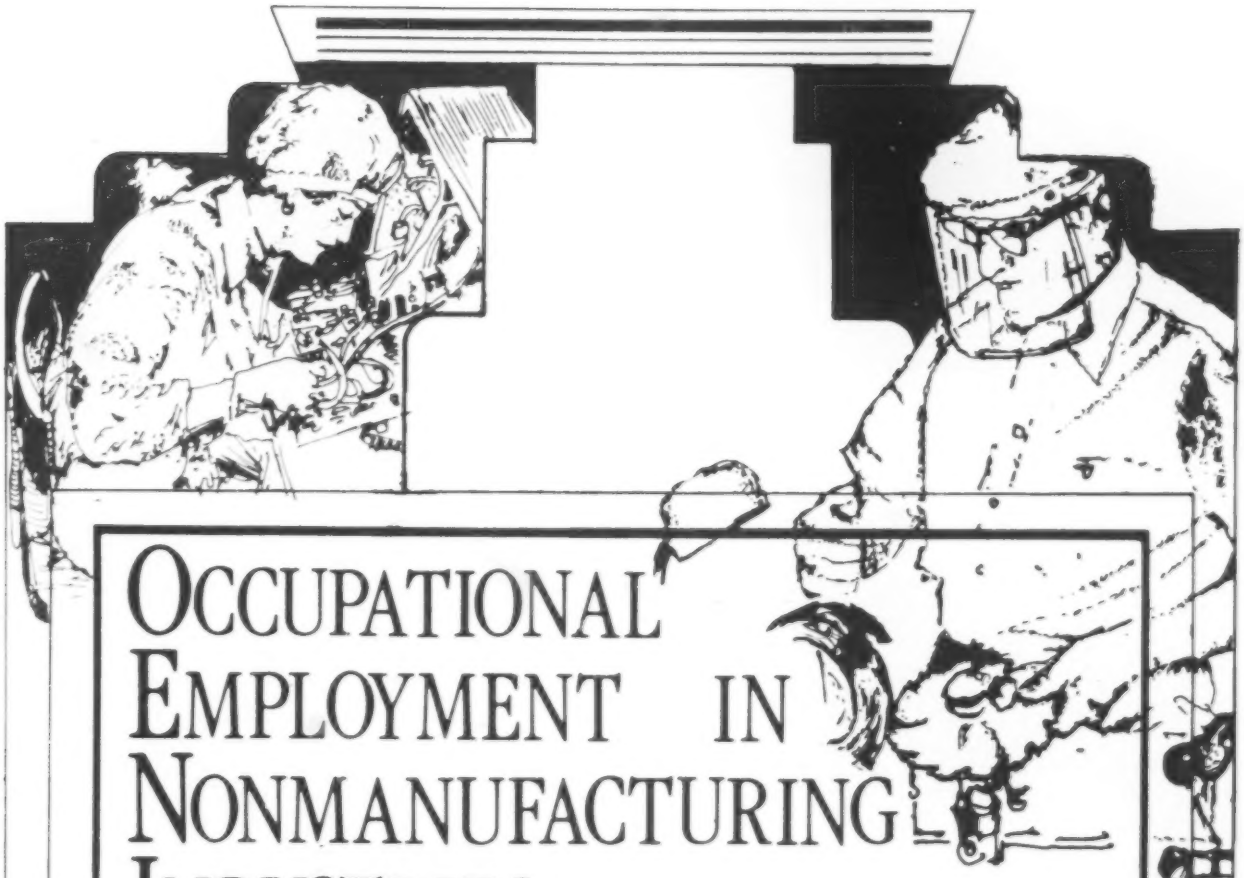
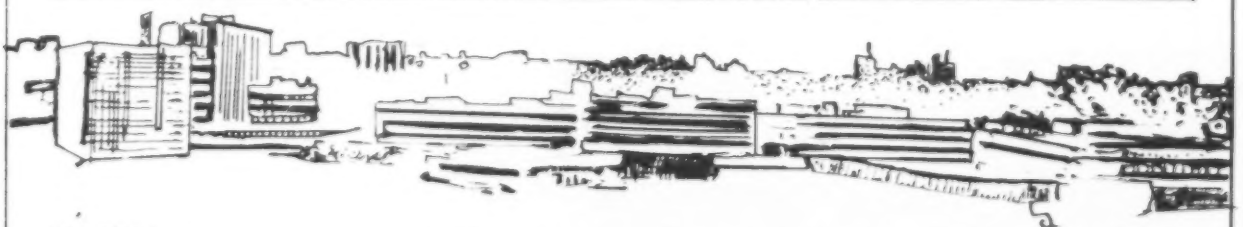


OCCUPATIONAL EMPLOYMENT IN NONMANUFACTURING INDUSTRIES

North Carolina, 1987



Employment Security Commission of North Carolina, Labor Market Information Division

OCCUPATIONAL EMPLOYMENT

IN

NONMANUFACTURING INDUSTRIES

NORTH CAROLINA

1987

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A special thanks is extended to each of the employers whose survey responses provided the occupational information on which this report was developed. Without their cooperation, a meaningful publication would have been impossible.

Introduction

The Occupational Employment Statistics (OES) program is a cooperative effort of the Bureau of Labor Statistics and the nation's State Employment Security Agencies. In North Carolina, the Labor Market Information Division bears the responsibility for the collection, analysis and distribution of information relating to the occupational staffing patterns of the state's industries. Industries are surveyed on a three-year rotating cycle to increase the cost effectiveness of the data collection and to reduce the reporting burden of employers who are asked to participate in the study. Research done by the Bureau of Labor Statistics has indicated that staffing patterns tend to remain relatively static, and therefore useful, over this time span. The project looks at only nonagricultural wage and salary employment. Data for self-employment, agriculture, and unpaid family members are not included. The three survey rounds are defined as follows:

Manufacturing and Hospitals

Nonmanufacturing Industries

Trade, Transportation, Communications, Public Utilities, Education

When viewed together, the results of these three survey rounds give a clear and accurate picture of occupations and industries in North Carolina which may be utilized by educators, counselors and planners in a number of ways including, but not limited to, the following:

1. Curriculum and Training Applications
   - for assessment of current and future occupational needs
   - for planning study curricula and development of training programs in accordance with changing job requirements

2. Career and Job Counseling
   - for guidance of students, trainees, and job-seekers in career or job selection
   - for background in applicant referrals to industries and locations where specific skills are needed

3. Industry and Business Administration
   - for improvement of worker selection by more equitably matching job training with occupational needs
   - for policy formulation and planning in terms of present and anticipated occupation patterns
   - for increased cooperation between industry and educational planners in determining needed program emphases to meet the needs of a changing work force

This is the sixth report in the OES series based on a survey of covered nonmanufacturing establishments as defined in the 1972 edition of the Standard Industrial Classification Manual (SIC). Data for firms engaged in mining, construction, finance, insurance, real estate, and services are included in this publication.

In 1987, there were 748,300 persons employed in the surveyed nonmanufacturing industries in North Carolina. This represents 26.1% of all nonagricultural wage and salary employment in the state, compared to the 25.0% shown by the 1984 survey.

Figure 1 depicts the relationship of nonmanufacturing employment to the other major divisions of nonagricultural wage and salary employment in the state for 1987. Since the last OES survey on nonmanufacturing three years ago, this industry sector as well as wholesale and retail trade have experienced considerable growth, with employment gains of 16.8% and 17.1%, respectively. During the same period, manufacturing gained employment at a slower rate while actually decreasing in the proportionate share of total nonagricultural wage and salary employment from 32.4% to 29.9% in 1987.

Figure 2 shows the average annual nonagricultural wage and salary employment in North Carolina for the ten-year period, 1978-1987. Figure 3 reflects average annual employment in the nonmanufacturing sector for the same period.

Note: Employment data for Figures 1, 2 and 3 are expressed as annual average figures. The information was provided by the Current Employment Statistics (CES) Unit of the Labor Market Information Division.

FIGURE 1
NONMANUFACTURING EMPLOYMENT COMPARED TO OTHER MAJOR INDUSTRY SECTORS - 1987

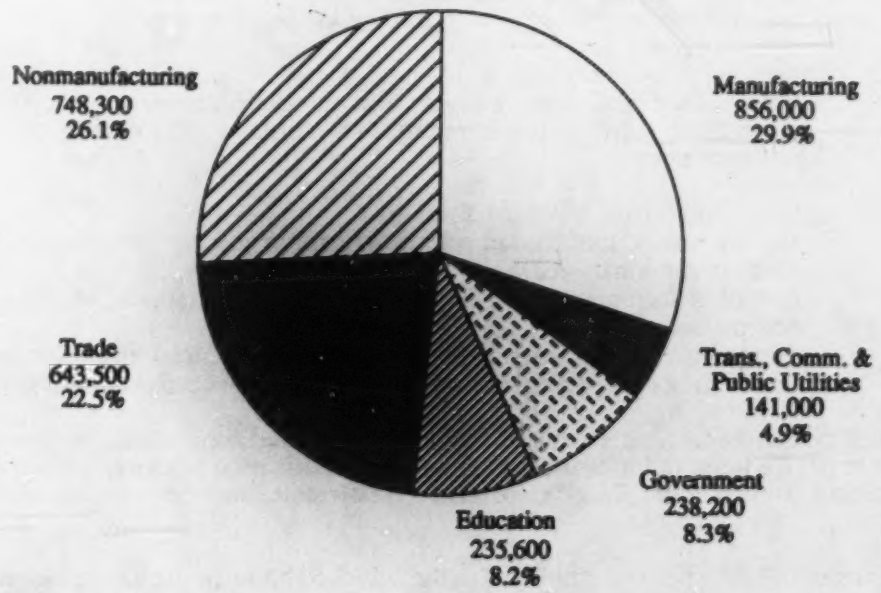
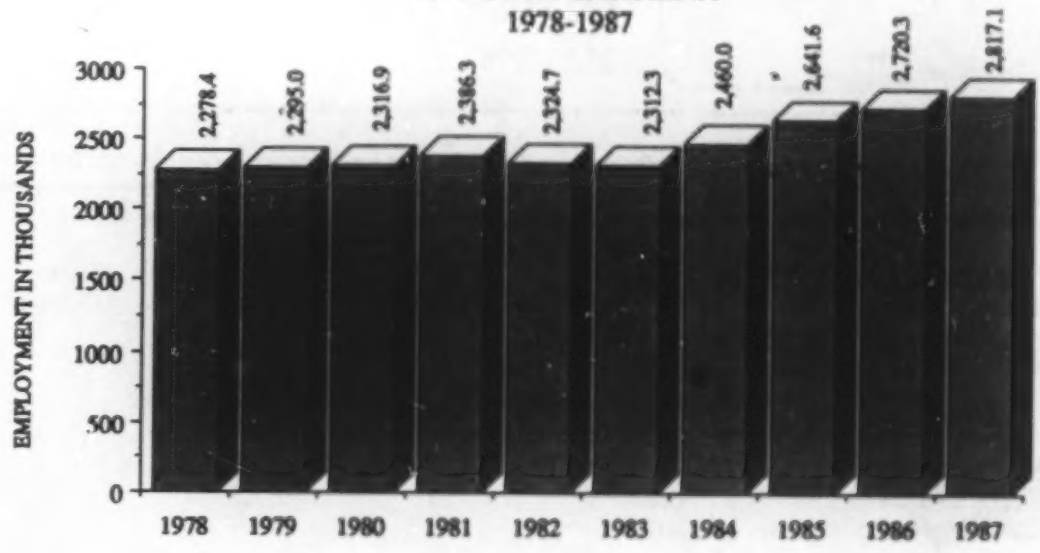


FIGURE 2
NONAGRICULTURAL WAGE AND SALARY EMPLOYMENT
IN NORTH CAROLINA
1978-1987



NOTE: Annual average employment is based on place of residence.

FIGURE 3
NONMANUFACTURING WAGE AND SALARY EMPLOYMENT
IN NORTH CAROLINA
1978-1987

NOTE: Employment for this table represents only the surveyed nonmanufacturing industries as reported by Current Employment Statistics (CES) Unit.

SIC 14

Except 142

MINING AND QUARRYING OTHER THAN FUELS

MAY 1987

Establishments in this group are primarily engaged in mining or quarrying, or exploring for nonmetallic minerals, except fuels. Included are primary preparation plants, such as those engaged in crushing, grinding, washing and other such concentration. Certain well and brine operations are also included.

Occupation	Estimated Employment[1/]	Relative Error %	Percent Distribution[1/]
Total Employment	2,880	NA	100.0
Managers and Officers	130	NA	4.5
Financial Managers	20	21.7	0.6
Mining and Related Managers	50	10.5	1.8
General Managers and Top Executives	50	7.5	1.8
Other Managers and Administrators	10	NA	0.3
Professional and Technical Workers	240	NA	8.4
Other Management Support Workers	40	NA	1.4
Other Engineers	30	NA	1.0
Other Engineering Technicians and Technologists	20	NA	0.7
Chemists	20	5.4	0.7
Chemical Technicians and Technologists, except Health	60	0.0	2.2
Other Professional and Technical Workers	70	NA	2.4
Sales Workers	20	NA	0.7
Clerical Workers	250	NA	8.7
Secretaries	50	8.0	1.7
Bookkeeping, Accounting and Auditing Clerks	30	7.6	1.1
General Office Clerks	40	10.8	1.3
Weighers, Measurers, Checkers, Samplers	50	6.7	1.7
Other Clerical and Administrative Workers	80	NA	2.8
Service Workers	50	NA	1.7
Production and Maintenance Workers	2,190	NA	76.0
Construction Supervisors	170	3.3	5.9
Other Supervisors	20	NA	0.7
Production Inspectors	40	4.8	1.4
Other Machinery Maintenance Mechanics	90	NA	3.1
Maintenance Repairers, General Utility	90	4.6	3.1
Mobile Heavy Equipment Mechanics	50	5.9	1.7
Other Mechanics, Installers and Repairers	120	NA	4.2
Electricians	50	2.5	1.7

Occupation	Estimated Employment[1/]	Relative Error %	Percent Distribution[1/]
Earth Drillers	60	3.2	2.0
Other Construction Trades Helpers	90	NA	3.1
Furnace Operators and Tenders	30	5.7	1.2
Separating and Filtering Machine Operators and Tenders	40	19.9	1.4
Crushing, Grinding, and Mixing Machine Operators and Tenders	130	15.3	4.5
Welders and Cutters	70	5.3	2.5
Truck Drivers, Heavy (incl. Tractor Trailer)	130	9.8	4.5
Excavating and Loading Machine Operators	100	7.4	3.5
Grader, Dozer and Scraper Operators	80	7.1	2.8
Industrial Truck and Tractor Operators	30	21.3	1.0
Conveyor Operators and Tenders	30	12.5	1.0
Other Construction Trades Helpers	20	NA	0.7
Material Movers, Hand	50	8.7	1.7
Other Laborers	700	NA	24.3

[1/] Details may not add to totals due to rounding or data suppression.

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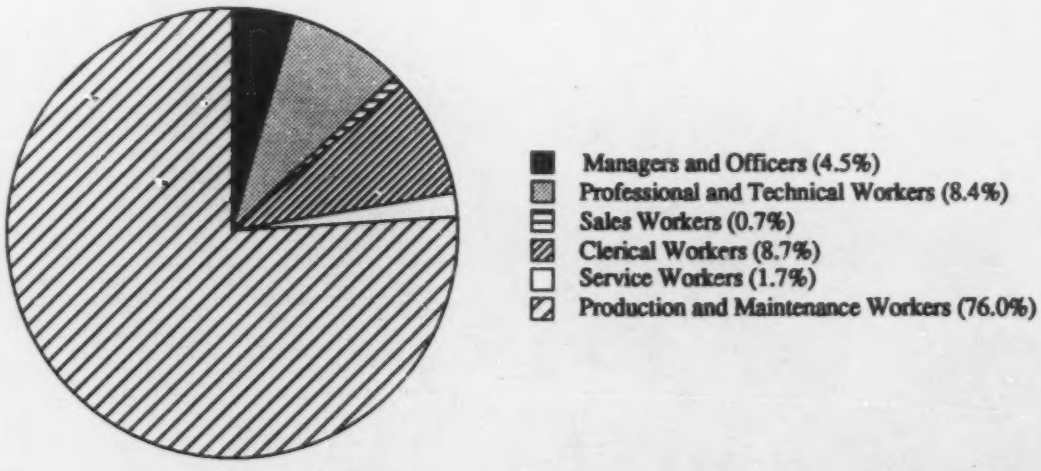
TABLE 1
THE FIVE LARGEST SPECIFIC OCCUPATIONS

Occupation	Estimated Employment	Percent Of Total Employment
Construction Supervisors	170	5.9
Crushing, Grinding, and Mixing Machine Operators and Tenders	130	4.5
Truck Drivers, Heavy (incl. Tractor-Trailer)	130	4.5
Excavating and Loading Machine Operators	100	3.5
Maintenance Repairers, General Utility	90	3.1

FIGURE 4
PERCENT DISTRIBUTION OF EMPLOYMENT BY MAJOR OCCUPATIONAL CATEGORY



SIC 15

GENERAL BUILDING CONTRACTORS

MAY 1987

General building contractors and operative builders in this group are primarily engaged in construction of residential, farm, industrial, commercial or other buildings. Also included are general building contractors who combine a special trade with the contracting.

Occupation	Estimated Employment[1/]	Relative Error %	Percent Distribution[1/]
Total Employment	48,610	NA	100.0
Managers and Officers	6,000	NA	12.3
Financial Managers	720	17.8	1.5
Purchasing Managers	30	23.4	0.1
Marketing, Advertising and Public Relations Managers	40	16.2	0.1
Construction Managers	2,140	8.5	4.4
General Managers and Top Executives	2,880	6.9	5.9
Other Managers and Administrators	190	NA	0.4
Professional and Technical Workers	1,710	NA	3.5
Cost Estimators	880	15.2	1.8
Other Management Support Workers	280	NA	0.6
Civil Engineers	60	26.0	0.1
Safety Engineers	30	28.6	0.1
Other Engineers	70	NA	0.1
Civil Engineering Technicians and Technologists	80	15.5	0.2
Other Engineering Technicians and Technologists	210	NA	0.4
Other Professional and Technical Workers	100	NA	0.2
Sales Workers	320	NA	0.7
Clerical Workers	4,560	NA	9.4
Clerical and Administrative Supervisors	70	25.1	0.1
Secretaries	1,610	9.5	3.3
Receptionists and Information Clerks	50	29.9	0.1
Typists, Word Processing	20	29.2	0.1
Personnel Clerks	30	24.1	0.1
Bookkeeping, Accounting and Auditing Clerks	1,490	9.9	3.1
Payroll and Timekeeping Clerks	130	9.0	0.3
Billing, Cost and Rate Clerks	40	17.5	0.1
General Office Clerks	850	15.3	1.8
Data Entry Keyers	40	15.7	0.1
Other Office Machine Operators	100	NA	0.2
Switchboard Operators	30	21.6	0.1

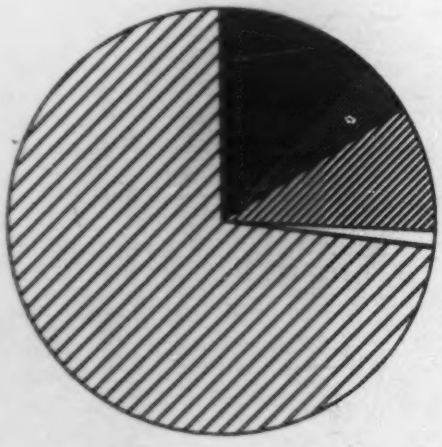
Occupation	Estimated Employment[1/]	Relative Error %	Percent Distribution[1/]
Stock Clerks, Stockroom or Warehouse	30	29.1	0.1
Other Clerical and Administrative Workers	70	NA	0.1
Service Workers	600	NA	1.3
Protective Service Workers	80	NA	0.2
Janitors and Cleaners	300	20.7	0.6
Other Service Workers	220	NA	0.5
Agricultural, Forestry or Fishery Workers	70	NA	0.1
Production and Maintenance Workers	35,320	NA	72.7
Mechanic and Repairer Supervisors	100	25.3	0.2
Construction Supervisors	3,530	8.2	7.3
Laborer Supervisors	150	22.7	0.3
Other Supervisors	30	NA	0.1
Millwrights	200	29.3	0.4
Maintenance Repairers, General Utility	740	20.3	1.5
Mobile Heavy Equipment Mechanics	40	12.9	0.1
Other Mechanics, Installers and Repairers	190	NA	0.4
Carpenters	13,430	4.7	27.6
Electricians	220	16.6	0.5
Brick Masons	870	25.4	1.8
Concrete and Terrazzo Finishers	820	25.2	1.7
Reinforcing Metal Workers	120	6.7	0.2
Painters and Paperhangers	770	29.4	1.6
Structural Metal Workers	920	30.9	1.9
Other Construction Trades Workers	1,380	NA	2.8
Other Precision Metal Workers	100	NA	0.2
Other Metal and Plastic Machine Operators and Tenders	70	NA	0.1
Welders and Cutters	220	15.8	0.5
Truck Drivers, Heavy (incl. Tractor Trailer)	290	25.7	0.6
Truck Drivers, Light-incl. Delivery and Route Workers	250	33.7	0.5
Excavating and Loading Machine Operators	50	20.7	0.1
Grader, Dozer and Scraper Operators	80	15.4	0.2
Other Material Moving Equipment Operators	260	NA	0.5
Mechanic and Repairer Helpers	80	6.8	0.2
Brick Mason Helpers	660	24.1	1.4
Carpenter Helpers	7,460	7.2	15.3
Electrician Helpers	80	11.2	0.2
Plumbers, Pipefitters and Steamfitter Helpers	90	19.2	0.2
Other Construction Trades Helpers	100	NA	0.2
Other Laborers	2,020	NA	4.2

[1/] Details may not add to totals due to rounding or data suppression.

TABLE 2
THE FIVE LARGEST SPECIFIC OCCUPATIONS

Occupation	Estimated Employment	Percent Of Total Employment
Carpenters	13,430	27.6
Carpenter Helpers	7,460	15.3
Construction Supervisors	3,530	7.3
General Managers and Top Executives	2,880	5.9
Construction Managers	2,140	4.4

FIGURE 5
PERCENT DISTRIBUTION OF EMPLOYMENT BY MAJOR OCCUPATIONAL CATEGORY


Managers and Officers (12.3%)
Professional and Technical Workers (3.5%)
Sales Workers (0.7%)
Clerical Workers (9.4%)
Service Workers (1.3%)
Agricultural, Forestry or Fishery Workers (0.1%)*
Production and Maintenance Workers (72.7%)

*NOTE: (0.1% is too small to appear on graph)

SIC 16

HEAVY CONSTRUCTION CONTRACTORS

MAY 1987

This major group includes general contractors who are engaged in heavy construction of such projects as highways and streets, alleys, bridges, sidewalks, guard rails, parkways, parking areas, airports, bridle paths, athletic fields, viaducts, elevated highways, tunnels, sewers, railroads, irrigation projects, flood control projects and marine construction. General heavy construction contractors who combine a special trade with the contracting are included in this major group.

Occupation	Estimated Employment[1/]	Relative Error %	Percent Distribution[1/]
Total Employment	24,590	NA	100.0
Managers and Officers	1,790	NA	7.3
Financial Managers	130	24.5	0.5
Purchasing Managers	20	30.8	0.1
Administrative Services Managers	30	21.6	0.1
Construction Managers	710	11.3	2.9
General Managers and Top Executives	840	9.2	3.4
Other Managers	60	NA	0.3
Professional and Technical Workers	470	NA	1.9
Accountants and Auditors	30	13.1	0.1
Purchasing Agents and Buyers, Except Farm Products	20	13.2	0.1
Cost Estimators	250	16.9	1.0
Other Management Support Workers	20	NA	0.1
Civil Engineers	30	11.8	0.1
Safety Engineers	20	6.9	0.1
Other Engineers	20	NA	0.1
Other Engineering Technicians and Technologists	60	NA	0.2
Other Professional and Technical Workers	20	NA	0.1
Sales Workers	20	NA	0.1
Clerical Workers	1,280	NA	5.2
Clerical and Administrative Supervisors	40	22.9	0.2
Secretaries	280	16.6	1.1
Receptionists and Information Clerks	30	11.7	0.1
Bookkeeping, Accounting and Auditing Clerks	430	13.6	1.7
Payroll and Timekeeping Clerks	50	9.5	0.2
Billing, Cost and Rate Clerks	20	18.9	0.1
General Office Clerks	190	17.5	0.8
Data Entry Keyers	30	14.2	0.1
Other Office Machine Operators	20	NA	0.1

Occupation	Estimated Employment[1/]	Relative Error %	Percent Distribution[1/]
Stock Clerks, Stockroom or Warehouse	40	16.4	0.2
Other Material Recording and Related Workers	40	NA	0.2
Other Clerical and Administrative Workers	110	NA	0.4
Service Workers	90	NA	0.3
Production and Maintenance Workers	20,950	NA	85.2
Mechanic and Repairer Supervisors	70	14.9	0.3
Construction Supervisors	1,520	7.5	6.2
Transportation and Material Moving Supervisors	140	20.6	0.6
Laborer Supervisors	90	11.0	0.4
Other Supervisors	40	NA	0.2
Machinery Maintenance Workers	40	13.4	0.2
Maintenance Repairers, General Utility	400	28.3	1.6
Automotive Mechanics	20	12.3	0.1
Bus, Truck and Diesel Mechanics	140	10.3	0.5
Mobile Heavy Equipment Mechanics	420	15.8	1.7
Telephone and Cable TV Line Installers and Repairers	510	32.9	2.1
Electric Powerline Installers and Repairers	630	24.4	2.6
Other Mechanics, Installers and Repairers	190	NA	0.8
Carpenters	470	13.8	1.9
Electricians	190	7.1	0.8
Brick Masons	80	14.3	0.3
Concrete and Terrazzo Finishers	490	13.3	2.0
Reinforcing Metal Workers	80	9.2	0.3
Painters and Paperhangers	20	14.0	0.1
Pipelayers	1,010	16.4	4.1
Air Hammer Operators	40	19.2	0.2
Paving, Surfacing and Tamping Equipment Operators	900	18.1	3.7
Other Construction Trade Workers	480	NA	1.9
Other Extractive Workers	60	NA	0.2
Sheet Metal Workers	40	10.4	0.1
Other Precision Metal Workers	80	NA	0.3
Crushing, Grinding, Mixing and Blending Machine Operators and Tenders	40	33.8	0.2
Welders and Cutters	310	34.3	1.2
Other Hand Workers	30	NA	0.1
Truck Drivers, Heavy (incl. Tractor Trailer)	1,600	8.9	6.5
Other Motor Vehicle Operators	220	NA	0.9
Excavating and Loading Machine Operators	1,150	14.6	4.7

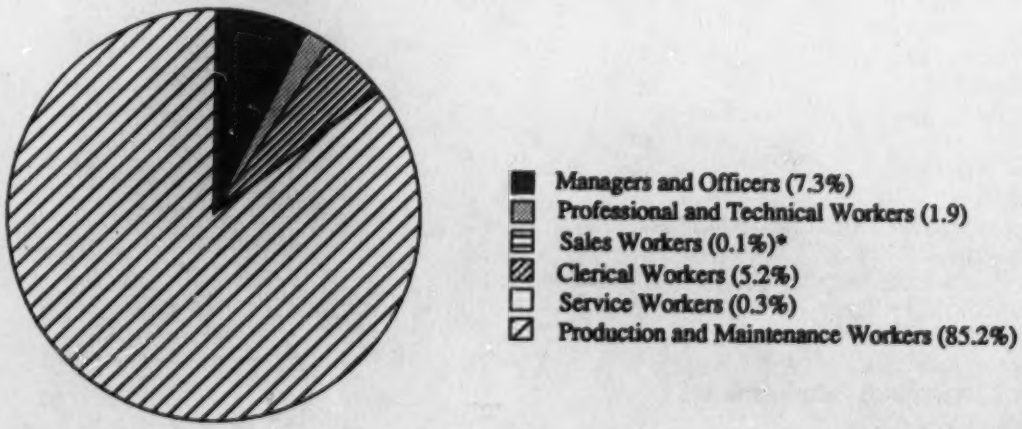
Occupation	Estimated Employment[1/]	Relative Error %	Percent Distribution[1/]
Dragline Operators	50	18.6	0.2
Grader, Dozer and Scraper Operators	2,020	12.1	8.2
Crane and Tower Operators	90	8.1	0.4
Operating Engineers	1,340	22.3	5.4
Other Material Moving Equipment Operators	140	NA	0.6
Mechanic and Repairer Helpers	130	25.8	0.5
Brick Mason Helpers	50	7.0	0.2
Carpenter Helpers	460	27.8	1.9
Electrician Helpers	440	5.0	1.8
Plumber, Pipefitters and Steamfitter Helpers	640	23.8	2.6
Other Construction Trades Helpers	370	NA	1.5
Extractive Worker Helpers	190	NA	0.8
Other Laborers	3,530	NA	14.4

[1/] Details may not add to totals due to rounding or data suppression.

TABLE 3
THE FIVE LARGEST SPECIFIC OCCUPATIONS

Occupation	Estimated Employment	Percent Of Total Employment
Grader, Dozer and Scraper Operators	2,020	8.2
Truck Drivers, Heavy (incl. Tractor Trailer)	1,600	6.5
Construction Supervisors	1,520	6.2
Operating Engineers	1,340	5.4
Excavating and Loading Machine Operators	1,150	4.7

FIGURE 6
PERCENT DISTRIBUTION OF EMPLOYMENT BY MAJOR OCCUPATIONAL CATEGORY



*NOTE: (0.1% is too small to appear on graph)

SIC 17

SPECIAL TRADE CONTRACTORS

MAY 1987

This major group includes contractors who engage in specialized activities such as plumbing, painting, plastering, carpentering, roofing, water well drilling, concrete work, electrical work, etc. Also included are establishments engaged in miscellaneous construction activities such as erection of structural steel, glass and glazing work, excavation, demolition, installation of building equipment, house moving, etc.

Special trade contractors may work on subcontracts from the general contractor, performing only part of the work covered by the general contractor, or they may work directly for the owner. Special trade contractors perform most of their work at the job site, although they also may have shops where they perform work incidental to the site job.

Occupation	Estimated Employment[1/]	Relative Error %	Percent Distribution[1/]
Total Employment	83,360	NA	100.0
Managers and Officers	5,650	NA	6.8
Financial Managers	640	12.5	0.8
Construction Managers	1,720	8.3	2.1
General Managers and Top Executives	3,290	6.1	3.9
Professional and Technical Workers	1,800	NA	2.1
Accountants and Auditors	70	34.7	0.1
Cost Estimators	1,290	7.9	1.5
Drafters	190	18.7	0.2
Other Professional and Technical Workers	250	NA	0.3
Sales Workers	1,070	NA	1.3
Sales Engineers	150	23.5	0.2
Sales Representatives, Nonscientific-except Retail	860	16.3	1.0
Other Sales and Related Workers	60	NA	0.1
Clerical Workers	7,460	NA	8.9
Secretaries	2,910	6.1	3.5
Bookkeeping, Accounting and Auditing Clerks	1,880	6.6	2.2
Payroll and Timekeeping Clerks	280	16.5	0.3
General Office Clerks	1,870	11.4	2.2
Stock Clerks, Stockroom or Warehouse	470	21.3	0.6
Other Clerical and Administrative Workers	50	NA	0.1
Service Workers	220	NA	0.3
Production and Maintenance Workers	67,160	NA	80.6
Construction Supervisors	2,540	6.4	3.0
Millwrights	270	33.0	0.3

Occupation	Estimated Employment[1/]	Relative Error %	Percent Distribution[1/]
Maintenance Repairers, General Utility	820	21.2	1.0
Bus, Truck and Diesel Mechanics	50	20.1	0.1
Heating, Air Conditioning and Refrigeration Mechanics	4,030	9.6	4.8
Other Mechanics, Installers and Repairers	1,080	NA	1.3
Carpenters	1,980	8.2	2.4
Ceiling Tile Installers	480	27.1	0.6
Drywall Installers	1,340	18.4	1.6
Tapers	250	25.4	0.3
Electricians	6,620	7.3	7.9
Brick Masons	4,100	10.0	4.9
Hard Tile Setters	720	27.8	0.9
Concrete and Terrazzo Finishers	1,630	11.1	2.0
Reinforcing Metal Workers	230	32.6	0.3
Painters and Paperhangers	3,540	3.0	4.2
Plumbers and Pipefittters	4,460	8.5	5.3
Carpet Installers	210	19.0	0.3
Floor Layers	180	21.6	0.3
Floor Sanding Machine Operators	100	32.0	0.1
Paving and Related Equipment Operators	410	14.2	0.5
Insulation Workers	1,470	22.6	1.8
Sheet Metal Duct Installers	1,790	14.8	2.1
Roofers	3,060	7.6	3.7
Glaziers	610	29.2	0.7
Structural Metal Workers	450	27.8	0.5
Fence Erectors	470	29.8	0.6
Other Construction Trades Workers	1,940	NA	2.3
Sheet Metal Workers	2,480	10.6	3.0
Other Machine Operators	640	NA	0.8
Welders and Cutters	400	21.9	0.5
Other Hand Workers	140	NA	0.2
Truck Drivers, Heavy (incl. Tractor Trailer)	940	14.6	1.1
Truck Drivers, Light (incl. Delivery and Route Workers)	430	21.0	0.5
Excavating and Loading Machine Operators	400	20.5	0.5
Grader, Dozer and Scraper Operators	700	20.1	0.8
Crane and Tower Operators	80	31.6	0.1
Operating Engineers	300	25.2	0.4
Other Material Moving Equipment Operators	70	NA	0.1
Brick Mason Helpers	3,740	9.1	4.5
Carpenter Helpers	950	9.9	1.1
Electrician Helpers	4,200	10.5	5.0
Painter and Related Helpers	650	18.3	0.8
Plumber and Related Helpers	3,010	9.6	3.6

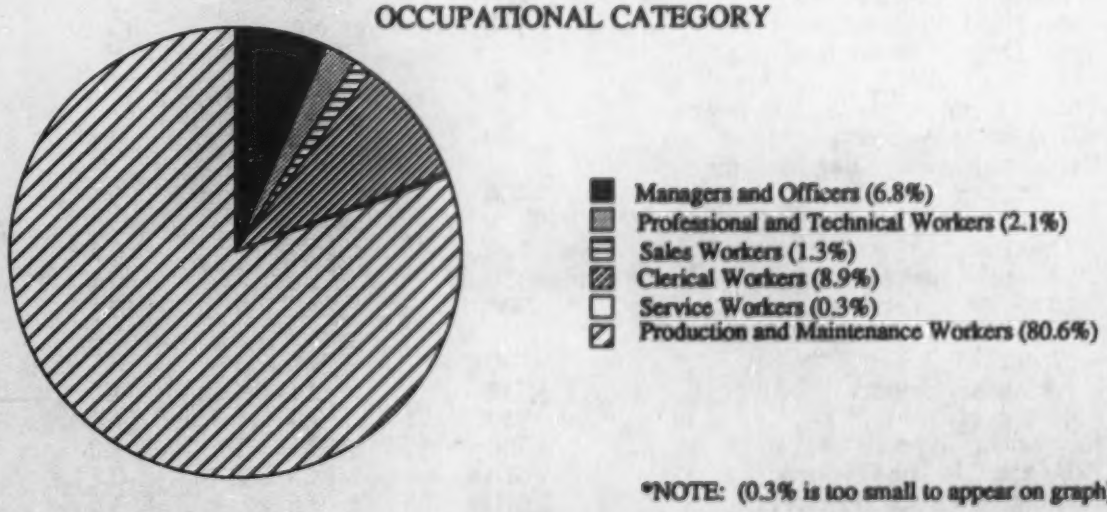
Occupation	Estimated Employment[1/]	Relative Error %	Percent Distribution[1/]
Roofer Helpers	1,010	14.6	1.2
Other Construction Trades Helpers	490	NA	0.6
Extractive Worker Helpers	270	31.0	0.3
Material Movers, Hand	450	29.3	0.5
Other Laborers	980	NA	1.2

[1/] Details may not add to totals due to rounding or data suppression.

TABLE 4
THE FIVE LARGEST SPECIFIC OCCUPATIONS

Occupation	Estimated Employment	Percent Of Total Employment
Electricians	6,620	7.9
Plumbers and Pipefitters	4,460	5.3
Electrician Helpers	4,200	5.0
Brick Masons	4,100	4.9
Heating, Air Conditioning and Refrigeration Mechanics	4,030	4.8

FIGURE 7
PERCENT DISTRIBUTION OF EMPLOYMENT BY MAJOR OCCUPATIONAL CATEGORY



*NOTE: (0.3% is too small to appear on graph).

SIC 60

BANKING

MAY 1987

Establishments in this major group are engaged primarily in deposit banking or closely related functions.

Occupation	Estimated Employment[1/]	Relative Error %	Percent Distribution[1/]
Total Employment	34,170	NA	100.0
Managers and Officers	4,580	NA	13.4
Financial Managers	1,970	12.7	5.8
Personnel and Labor Relations Managers	70	22.2	0.2
Marketing, Advertising and Public Relations Managers	130	22.2	0.4
Administrative Service Managers	130	16.7	0.3
General Managers and Top Executives	1,430	11.3	4.2
Other Managers and Administrators	850	NA	2.5
Professional and Technical Workers	5,160	NA	15.1
Credit Analysts	240	28.3	0.7
Loan Officers and Counselors	1,850	14.0	5.4
Accountants and Auditors	360	20.2	1.0
Budget Analysts	120	20.2	0.4
Other Financial Specialists	830	NA	2.4
Personnel and Labor Relations Specialists	260	14.6	0.8
Management Analysts	110	5.4	0.3
Other Management Support Workers	510	NA	1.5
EDP Systems Analysts	150	25.3	0.4
Operations and Systems Researchers and Analysts, Except Computers	90	6.6	0.3
Financial Analysts	30	21.6	0.1
Other Mathematical Scientists	450	NA	1.3
Economists	40	24.8	0.1
Lawyers	20	24.0	0.1
Public Relations Specialists	60	24.8	0.2
Other Professional and Technical Workers	40	NA	0.1
Sales Workers	360	NA	1.0
Sales Supervisors	80	11.9	0.2
Sales Agents, Securities, Commodities and Financial Services	140	13.0	0.4
Other Sales Representatives, Services	140	NA	0.4
Clerical Workers	23,500	NA	68.7
Clerical and Administrative Supervisors	1,490	9.5	4.4

Occupation	Estimated Employment[1/]	Relative Error %	Percent Distribution[1/]
Tellers	9,480	5.1	27.7
New Accounts Clerks	1,920	12.3	5.6
Transit Clerks	420	28.4	1.2
Loan Interviewers	100	15.6	0.3
Credit Authorizers	60	15.8	0.2
Credit Checkers	140	27.6	0.4
Loan and Credit Clerks	1,460	11.2	4.3
Adjustment Clerks	220	5.6	0.6
Statement Clerks	510	14.7	1.5
Brokerage Clerks	120	22.8	0.4
Insurance Examining Clerks	20	2.6	0.1
Bill and Account Collectors	390	9.8	1.1
Secretaries	1,440	5.4	4.2
Stenographers	70	24.2	0.2
Receptionists and Information Clerks	190	24.6	0.5
Typists	50	34.8	0.1
Typists, Word Processing	160	12.5	0.5
Personnel Clerks	60	26.4	0.2
Correspondence Clerks	20	10.2	0.1
File Clerks	120	24.2	0.3
Statistical Clerks	30	9.3	0.1
Bookkeeping, Accounting and Auditing Clerks	1,540	12.6	4.5
Payroll and Timekeeping Clerks	100	20.3	0.3
Billing, Cost and Rate Clerks	20	14.5	0.1
General Office Clerks	950	10.7	2.8
Billing, Posting and Calculating Machine Operators	250	5.6	0.7
Duplicating Machine Operators	20	25.4	0.1
Mail Operators	90	18.8	0.3
Computer Operators	410	12.1	1.2
Peripheral EDP Equipment Operators	30	6.0	0.1
Data Entry Keyers	500	16.3	1.5
Other Office Machine Operators	280	NA	0.8
Switchboard Operators	170	24.1	0.5
Mail Clerks, Except Mail Machine Operators	150	13.2	0.4
Messengers	260	27.1	0.8
Stock Clerks, Stockroom or Warehouse	50	24.4	0.1
Other Material Recording and Related Workers	30	NA	0.1
Other Clerical and Administrative Workers	180	NA	0.5
Service Workers	490	NA	1.4
Service Supervisors	30	4.8	0.1
Guards and Watch Guards	120	30.3	0.3
Food and Beverage Preparation Workers	20	4.3	0.1

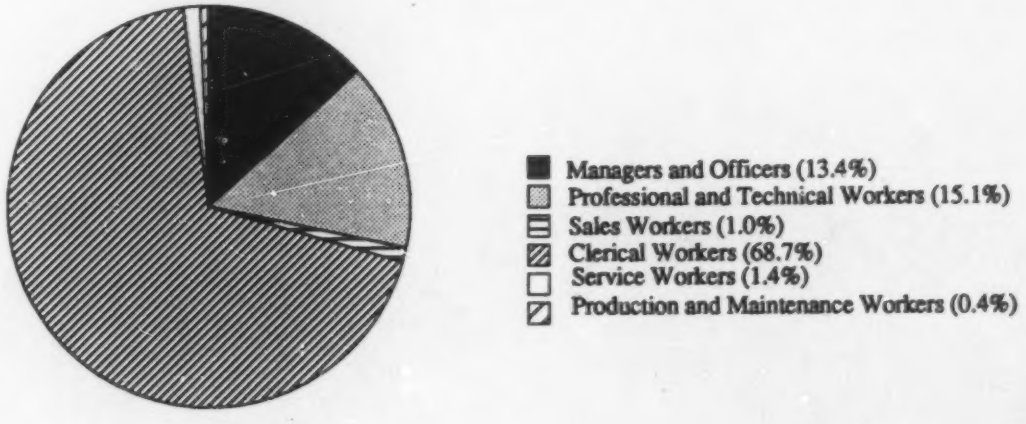
Occupation	Estimated Employment[1/]	Relative Error %	Percent Distribution[1/]
Other Cleaning and Building Service Workers	320	NA	0.9
Production and Maintenance Workers	120	NA	0.4
Production, Construction and Maintenance Supervisors	20	14.0	0.1
Maintenance Repairers, General Utility	60	7.6	0.2
Other Transportation and Material Moving Equipment Operators	20	NA	0.1
Other Laborers	20	NA	0.1

[1/] Details may not add to totals due to rounding or data suppression.

TABLE 5
THE FIVE LARGEST SPECIFIC OCCUPATIONS

Occupation	Estimated Employment	Percent Of Total Employment
Tellers	9,480	27.7
Financial Managers	1,970	5.8
New Account Clerks	1,920	5.6
Loan Officers and Counselors	1,850	5.4
Bookkeeping, Accounting and Auditing Clerks	1,540	4.5

FIGURE 8
PERCENT DISTRIBUTION OF EMPLOYMENT BY MAJOR OCCUPATIONAL CATEGORY



SIC 61

Except 613

CREDIT AGENCIES OTHER THAN BANKS

MAY 1987

This major group includes establishments engaged in extending credit in the form of loans, but not engaged in deposit banking such as Savings and Loan Associations and Agricultural, Personal, and Business Credit Institutions.

Occupation	Estimated Employment[1/]	Relative Error %	Percent Distribution[1/]
Total Employment	19,870	NA	100.0
Managers and Officers	3,110	NA	15.7
Financial Managers	1620	4.9	8.2
Personnel and Labor Relations Managers	80	6.7	0.4
Purchasing Managers	20	12.8	0.1
Marketing, Advertising and Public Relations Managers	80	6.0	0.4
Administrative Service Managers	70	14.9	0.4
Property and Real Estate Managers and Administrators	30	19.2	0.1
General Managers and Top Executives	960	8.0	4.8
Other Managers and Administrators	250	NA	1.3
Professional and Technical Workers	3,740	NA	18.8
Underwriters	90	11.9	0.4
Credit Analysts	420	12.1	2.1
Loan Officers and Counselors	2,060	5.6	10.4
Accountants and Auditors	220	11.8	1.1
Budget Analysts	20	25.4	0.1
Other Financial Specialists	360	NA	1.8
Personnel and Labor Relations Specialists	60	10.7	0.3
Other Management Support Workers	240	NA	1.2
EDP Systems Analysts	80	27.6	0.4
Computer Programmers	90	29.1	0.5
Computer Programmer Aides	20	26.8	0.1
Other Professional and Technical Workers	80	NA	0.4
Sales Workers	950	NA	4.8
Sales Agents, Securities, Commodities and Financial Services	160	24.4	0.8
Other Sales Representatives, Service	180	NA	0.9
Cashiers	380	15.3	1.9
Other Sales and Related Workers	230	NA	1.2
Clerical Workers	11,840	NA	59.6
Clerical and Administrative Supervisors	940	5.7	4.7

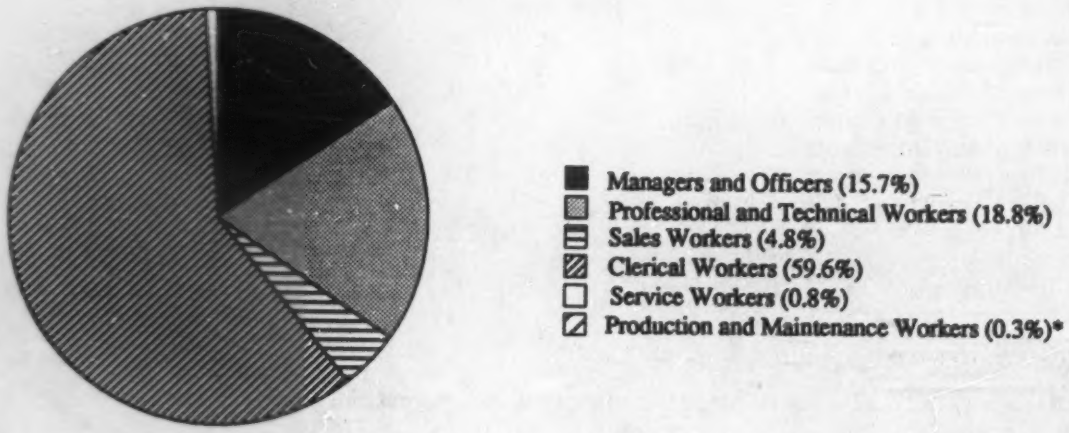
Occupation	Estimated Employment[1/]	Relative Error %	Percent Distribution[1/]
Tellers	3,220	5.2	16.2
New Accounts Clerks	590	8.0	3.0
Transit Clerks	20	29.1	0.1
Loan Interviewers	190	22.1	1.0
Credit Checkers	140	23.1	0.7
Loan and Credit Clerks	2,140	5.2	10.8
Adjustment Clerks	210	16.8	1.1
Statement Clerks	130	14.0	0.6
Insurance Examining Clerks	80	18.4	0.4
Bill and Account Collectors	920	12.6	4.6
Secretaries	700	7.0	3.5
Receptionists and Information Clerks	250	10.8	1.3
Typists	20	29.3	0.1
Typists, Word Processing	40	16.1	0.1
Personnel Clerks	30	16.7	0.1
Correspondence Clerks	50	24.2	0.3
File Clerks	90	22.8	0.5
Bookkeeping, Accounting and Auditing Clerks	720	6.9	3.6
Payroll and Timekeeping Clerks	20	28.1	0.1
General Office Clerks	540	16.7	2.7
Computer Operators	100	17.8	0.5
Peripheral EDP Equipment Operators	20	16.3	0.1
Data Entry Keyers	100	18.5	0.5
Other Office Machine Operators	40	NA	0.2
Switchboard Operators	90	11.5	0.5
Mail Clerks, Except Mail Machine Operators	60	14.9	0.3
Messengers	30	18.0	0.1
Other Clerical and Administrative Workers	360	NA	1.8
Service Workers	150	NA	0.8
Production and Maintenance Workers	60	NA	0.3
Other Mechanics, Installers and Repairers	30	NA	0.1
Other Transportation and Material Moving Equipment Operators	30	NA	0.2

[1/] Details may not add to totals due to rounding or data suppression.

TABLE 6
THE FIVE LARGEST SPECIFIC OCCUPATIONS

Occupation	Estimated Employment	Percent Of Total Employment
Tellers	3,220	16.2
Loan and Credit Clerks	2,140	10.8
Loan Officers and Counselors	2,060	10.4
Financial Managers	1,620	8.2
General Managers and Top Executives	960	4.8

FIGURE 9
PERCENT DISTRIBUTION OF EMPLOYMENT BY MAJOR OCCUPATIONAL CATEGORY



*NOTE: (0.3% is too small to appear on graph).

SIC 62

SECURITY AND COMMODITY BROKERS, DEALERS AND SERVICES

MAY 1987

Establishments in the major group engage in the underwriting, purchase, sale or brokerage of securities and other financial contracts on their own account or for the account of others.

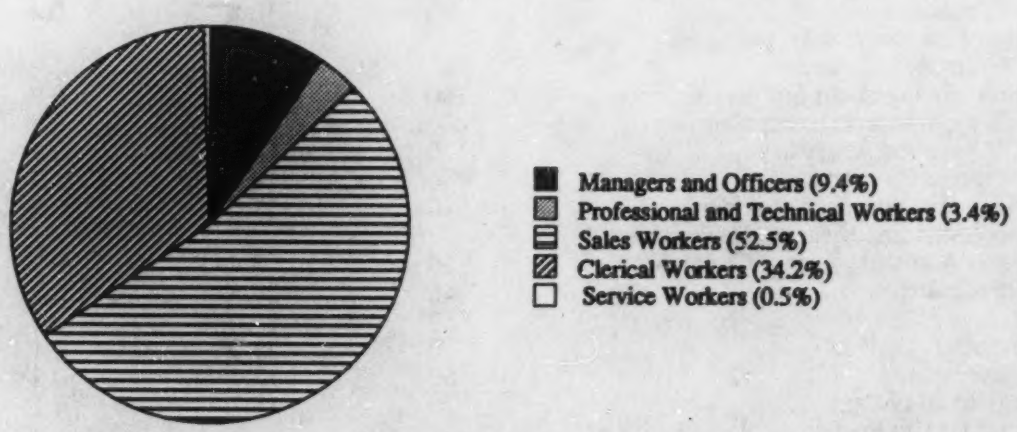
Occupation	Estimated Employment[1/]	Relative Error %	Percent Distribution[1/]
Total Employment	3,770	NA	100.0
Managers and Officers	360	NA	9.4
Financial Managers	80	33.1	2.0
General Managers and Top Executives	260	10.8	6.9
Other Managers and Administrators	20	NA	0.5
Professional and Technical Workers	130	NA	3.4
Accountants and Auditors	30	26.9	0.7
Other Professional and Technical Workers	100	NA	2.7
Sales Workers	1,980	NA	52.5
Sales Agents, Securities, Commodities and Financial Services	1,830	2.7	48.5
Cashiers	60	16.3	1.6
Other Sales and Related Workers	90	NA	2.4
Clerical Workers	1,290	NA	34.2
Clerical and Administrative Supervisors	30	33.7	0.8
Brokerage Clerks	460	11.2	12.2
Secretaries	310	12.8	8.2
Receptionists and Information Clerks	140	34.4	3.7
General Office Clerks	80	20.4	2.1
Other Office Machine Operators	50	NA	1.3
Switchboard Operators	50	17.5	1.4
Telegraph and Teletype Operators	50	20.4	1.3
Other Clerical and Administrative Workers	120	NA	3.2
Service Workers	20	NA	0.5

[1/] Details may not add to totals due to rounding or data suppression.

TABLE 7
THE FIVE LARGEST SPECIFIC OCCUPATIONS

Occupation	Estimated Employment	Percent Of Total Employment
Sales Agents, Securities Commodities and Financial Services	1,830	48.5
Brokerage Clerks	460	12.2
Secretaries	310	8.2
General Managers and Top Executives	260	6.9
Receptionists and Information Clerks	140	3.7

FIGURE 10
PERCENT DISTRIBUTION OF EMPLOYMENT BY MAJOR OCCUPATIONAL CATEGORY



SIC 63

INSURANCE

MAY 1987

This group includes insurance carriers engaged in underwriting life, accident and health, medical, fire, marine, casualty, financial responsibility insurance, as well as insurance to protect the owners of real estate, lenders of money and establishments primarily engaged in managing pension, retirement, health and welfare funds. Establishments that insure bank deposits and shares in savings and loan associations are also included in this group.

Occupation	Estimated Employment[1/]	Relative Error %	Percent Distribution[1/]
Total Employment	25,460	NA	100.0
Managers and Officers	1,830	NA	7.2
Financial Managers	160	29.2	0.6
Personnel and Labor Relations Managers	60	8.1	0.2
Marketing, Advertising and Public Relations Managers	150	13.4	0.6
Administrative Services Managers	80	16.6	0.3
Engineering, Mathematics and Natural Science Managers	60	27.4	0.2
General Managers and Top Executives	1,040	6.0	4.1
Other Managers and Administrators	280	NA	1.1
Professional and Technical Workers	3,870	NA	15.2
Underwriters	1,300	10.4	5.1
Accountants and Auditors	240	13.7	0.9
Other Financial Specialists	90	NA	0.4
Special Agents, Insurance	370	26.9	1.5
Personnel and Labor Relations Specialists	90	10.8	0.4
Claims Examiners, Property and Casualty Insurance	360	33.4	1.4
Other Management Support Workers	180	NA	0.7
Safety Engineers, Except Mining	30	28.6	0.1
EDP Systems Analysts	170	16.5	0.7
Computer Programmers	440	18.8	1.7
Computer Programmer Aides	140	11.0	0.5
Operations and Systems Researchers and Analysts, Except Computer	80	18.6	0.3
Statisticians	40	26.5	0.2
Actuaries	80	15.0	0.3
Financial Analysts	30	33.0	0.1
Lawyers	50	12.1	0.2
Registered Nurses	20	18.7	0.1
Other Health Professionals and Technicians	30	NA	0.1
Public Relations Specialists	60	24.0	0.2

Occupation	Estimated Employment[1/]	Relative Error %	Percent Distribution[1/]
Other Professional and Technical Workers	70	NA	0.3
Sales Workers	6,370	NA	25.0
Sales Supervisors	550	10.3	2.2
Sales Agents and Placers, Insurance	5,740	6.3	22.5
Other Sales and Related Workers	80	NA	0.3
Clerical Workers	13,270	NA	52.1
Clerical and Administrative Supervisors	950	6.1	3.7
Adjustment Clerks	170	19.6	0.7
Insurance Adjusters, Examiners and Investigators	1,420	15.3	5.6
Insurance Appraisers, Auto Damage	30	27.1	0.1
Insurance Examining Clerks	190	9.7	0.7
Insurance Claims Clerks	800	12.1	3.1
Insurance Policy Processing Clerks	2,010	8.8	7.9
Bill and Account Collectors	50	34.3	0.2
Legal Secretaries	30	12.0	0.1
Other Secretaries	820	NA	3.2
Stenographers	40	25.5	0.2
Receptionists and Information Clerks	160	33.7	0.6
Typists	370	11.7	1.5
Typists, Word Processing	370	7.7	1.5
Personnel Clerks	70	5.5	0.3
Correspondence Clerks	110	23.1	0.4
File Clerks	850	5.2	3.3
Statistical Clerks	30	23.7	0.1
Bookkeeping, Accounting and Auditing Clerks	660	7.7	2.6
Payroll and Timekeeping Clerks	60	9.5	0.2
Billing, Cost and Rate Clerks	310	16.5	1.2
General Office Clerks	2,160	11.3	8.5
Billing, Posting and Calculating Machine Operators	30	17.8	0.1
Mailing Machine Operators, Preparation and Handling	60	17.6	0.2
Computer Operators	350	28.8	1.4
Peripheral EDP Equipment Operators	50	18.5	0.2
Data Entry Keyers	710	11.3	2.8
Switchboard Operators	80	8.6	0.3
Mail Clerks, except Mail Machine Operators and Postal Service	230	7.0	0.9
Messengers	30	23.7	0.1
Stock Clerks, Stockroom or Warehouse	30	11.8	0.1
Other Clerical and Administrative Workers	40	NA	0.2
Service Workers	60	NA	0.3
Janitors and Cleaners	20	26.4	0.1

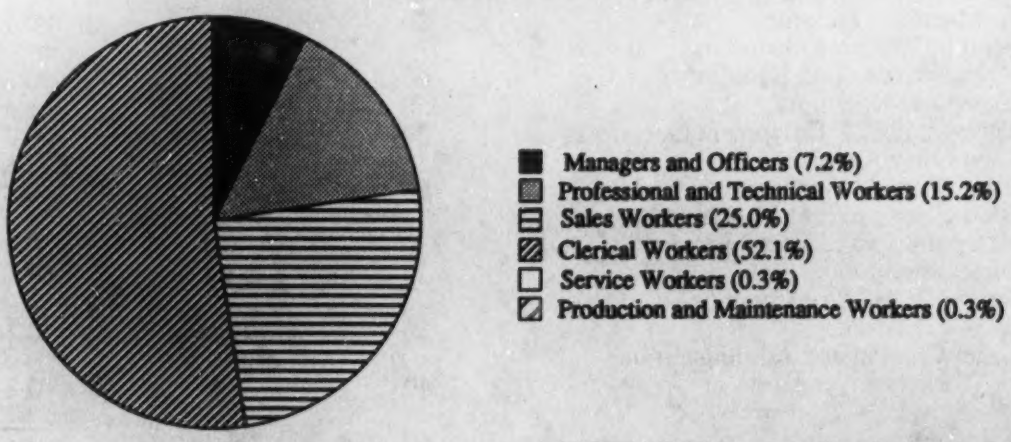
Occupation	Estimated Employment[1/]	Relative Error %	Percent Distribution[1/]
Other Service Workers	40	NA	0.2
Production and Maintenance Workers	60	NA	0.3
Maintenance Repairers, General Utility	20	18.3	0.1
Other Production and Maintenance Workers	40	NA	0.2

[1/] Details may not add to totals due to rounding or data suppression.

TABLE 8
THE FIVE LARGEST SPECIFIC OCCUPATIONS

Occupation	Estimated Employment	Percent Of Total Employment
Sales Agents and Placers, Insurance	5,740	22.5
General Office Clerks	2,160	8.5
Insurance Policy Processing Clerks	2,010	7.9
Insurance Adjusters, Examiners and Investigators	1,420	5.6
Underwriters	1,300	5.1

FIGURE 11
PERCENT DISTRIBUTION OF EMPLOYMENT BY MAJOR OCCUPATIONAL CATEGORY



*NOTE: (0.3% is too small to appear on graph).

SIC 64

INSURANCE AGENTS, BROKERS AND SERVICE

MAY 1987

This major group includes agents and brokers dealing in insurance. Organizations offering services to insurance companies and to policy holders are also included in this group. Unlike most major groups, this group has only one three-digit division, SIC 641.

Occupation	Estimated Employment[1/]	Relative Error %	Percent Distribution[1/]
Total Employment	11,930	NA	100.0
Managers and Officers	1,560	NA	13.1
Financial Managers	140	23.6	1.2
General Managers and Top Executives	1,300	7.2	10.9
Other Managers and Administrators	120	NA	1.0
Professional and Technical Workers	1,000	NA	8.4
Underwriters	370	25.6	3.1
Accountants and Auditors	70	28.5	0.6
Other Management Support Workers	20	NA	0.2
Other Professional and Technical Workers	540	NA	4.5
Sales Workers	2,390	NA	20.0
Sales Supervisors	200	23.6	1.6
Sales Agents and Placers, Insurance	2,020	9.6	16.9
Other Sales Representatives, Service	110	NA	0.9
Other Sales and Related Workers	60	NA	0.5
Clerical Workers	6,800	NA	57.0
Clerical and Administrative Supervisors	680	16.2	5.7
Insurance Adjusters, Examiners and Investigators	700	22.6	5.9
Insurance Claims Clerks	300	17.9	2.5
Insurance Policy Processing Clerks	2,100	9.5	17.6
Other Secretaries	710	NA	5.9
Receptionists and Information Clerks	260	15.7	2.2
Typists	90	29.1	0.8
File Clerks	250	24.6	2.1
Bookkeeping, Accounting and Auditing Clerks	620	9.5	5.2
General Office Clerks	630	15.6	5.3
Data Entry Keyers	70	12.2	0.6
Switchboard Operators	20	20.4	0.2
Mail Clerks, except Mail Machine Operators and Postal Service	30	26.5	0.2
Other Clerical and Administrative Workers	340	NA	2.8

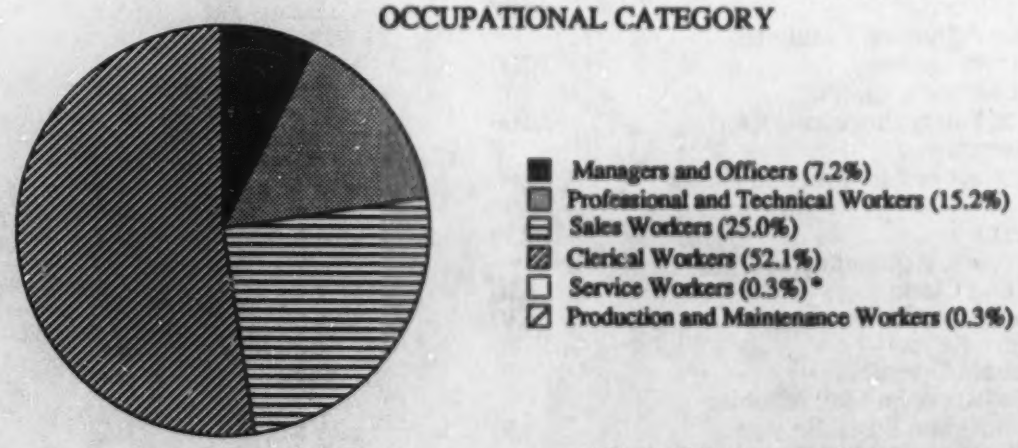
Occupation	Estimated Employment[1/]	Relative Error %	Percent Distribution[1/]
Service Workers	170	NA	1.4
Janitors and Cleaners	80	32.7	0.7
Other Service Workers	90	NA	0.7
Production and Maintenance Workers	10	NA	0.1

[1/] Details may not add to totals due to rounding or data suppression.

TABLE 9
THE FIVE LARGEST SPECIFIC OCCUPATIONS

Occupation	Estimated Employment	Percent Of Total Employment
Insurance Policy Processing Clerks	2,100	17.6
Sales Agents and Placers, Insurance	2,020	16.9
General Managers and Top Executives	1,300	10.9
Insurance Adjusters, Examiners and Investigators	700	5.9
Clerical and Administrative Supervisors	680	5.7

FIGURE 12
PERCENT DISTRIBUTION OF EMPLOYMENT BY MAJOR OCCUPATIONAL CATEGORY



*NOTE: (0.1% is too small to appear on graph).

SIC 65

REAL ESTATE

MAY 1987

This group includes real estate operators, and owners and lessors of real property, as well as buyers, sellers, developers, agents and brokers. Establishments engaged in searching real estate titles are also included.

Occupation	Estimated Employment[1/]	Relative Error %	Percent Distribution[1/]
Total Employment	24,930	NA	100.0
Managers and Officers	4,530	NA	18.2
Financial Managers	420	10.7	1.6
Personnel and Labor Relations Managers	20	34.5	0.1
Marketing, Advertising and Public Relations Managers	40	28.8	0.2
Administrative Services Managers	40	26.8	0.2
Property and Real Estate Managers and Administrators	2,070	6.6	8.3
Construction Managers	50	25.2	0.2
Food Service and Lodging Managers	120	17.6	0.5
General Managers and Top Executives	1,700	5.1	6.8
Other Managers and Administrators	70	NA	0.3
Professional and Technical Workers	610	NA	2.4
Accountants and Auditors	200	18.6	0.8
Other Health Professionals and Technicians	160	NA	0.6
Other Professional and Technical Workers	250	NA	1.0
Sales Workers	4,690	NA	18.8
Sales Supervisors	390	14.2	1.6
Brokers, Real Estate	670	14.7	2.7
Sales Agents, Real Estate	2,710	8.2	10.9
Appraisers, Real Estate	550	22.8	2.2
Other Sales and Related Workers	370	NA	1.5
Clerical Workers	5,590	NA	22.4
Clerical and Administrative Supervisors	320	27.3	1.3
Real Estate Clerks	630	14.7	2.5
Other Secretaries	1,020	NA	4.1
Receptionists and Information Clerks	790	9.4	3.2
Typists	120	28.4	0.5
Typists, Word Processing	60	24.6	0.2

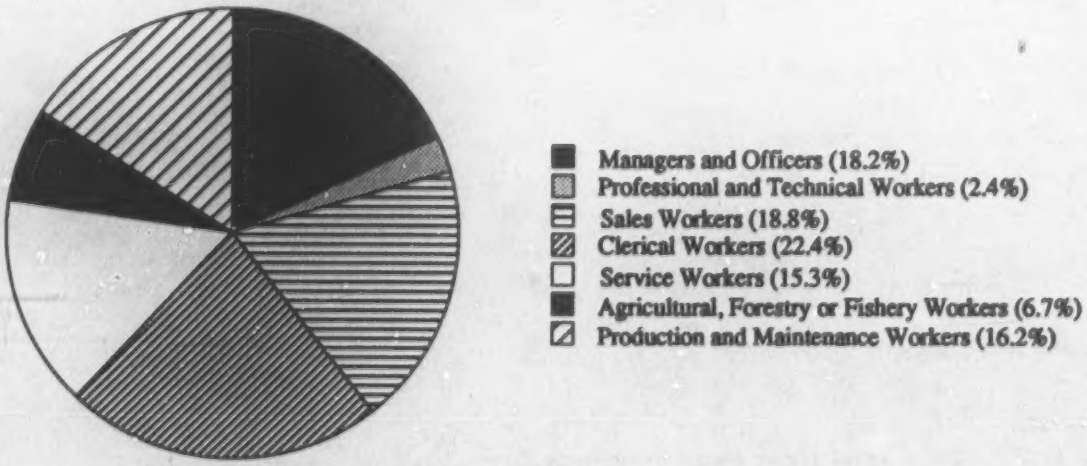
Occupation	Estimated Employment[1/]	Relative Error %	Percent Distribution[1/]
Bookkeeping, Accounting and Auditing Clerks	1,100	6.5	4.4
Payroll and Timekeeping Clerks	20	17.5	0.1
General Office Clerks	1,150	10.4	4.6
Switchboard Operators	20	18.6	0.1
Other Clerical and Administrative Workers	360	NA	1.4
Service Workers	3,810	NA	15.3
Service Supervisors	40	21.9	0.2
Guards and Watch Guards	490	16.6	2.0
Food and Beverage Preparation Workers	750	15.0	3.0
Maids and Housekeeping Cleaners	1,360	14.4	5.4
Janitors and Cleaners	970	17.3	3.9
Other Service Workers	200	NA	0.8
Agricultural, Forestry or Fishery Workers	1,660	NA	6.7
Gardeners and Groundskeepers	1,660	8.6	6.7
Production and Maintenance Workers	4,040	NA	16.2
Construction Trades Supervisors	90	24.5	0.4
Maintenance Repairers, General Utility	2,770	7.0	11.1
Carpenters	440	17.6	1.8
Painters and Paperhangers	220	21.8	0.9
Other Construction Trades Workers	50	NA	0.2
Other Transportation and Material Moving Equipment Operators	110	NA	0.4
Other Laborers	360	NA	1.4

[1/] Details may not add to totals due to rounding or data suppression.

TABLE 10
THE FIVE LARGEST SPECIFIC OCCUPATIONS

Occupation	Estimated Employment	Percent Of Total Employment
Maintenance Repairers, General Utility	2,770	11.1
Sales Agents, Real Estate	2,710	10.9
Property and Real Estate Managers and Administrators	2,070	8.3
General Managers and Top Executives	1,700	6.8
Gardeners and Groundskeepers	1,660	6.7

FIGURE 13
PERCENT DISTRIBUTION OF EMPLOYMENT BY MAJOR OCCUPATIONAL CATEGORY


Managers and Officers (18.2%)
Professional and Technical Workers (2.4%)
Sales Workers (18.8%)
Clerical Workers (22.4%)
Service Workers (15.3%)
Agricultural, Forestry or Fishery Workers (6.7%)
Production and Maintenance Workers (16.2%)

SIC 67

HOLDING OFFICES, TRUSTS AND MISCELLANEOUS INVESTING

MAY 1987

This Major Group includes investment trusts, holding companies and community trading companies.

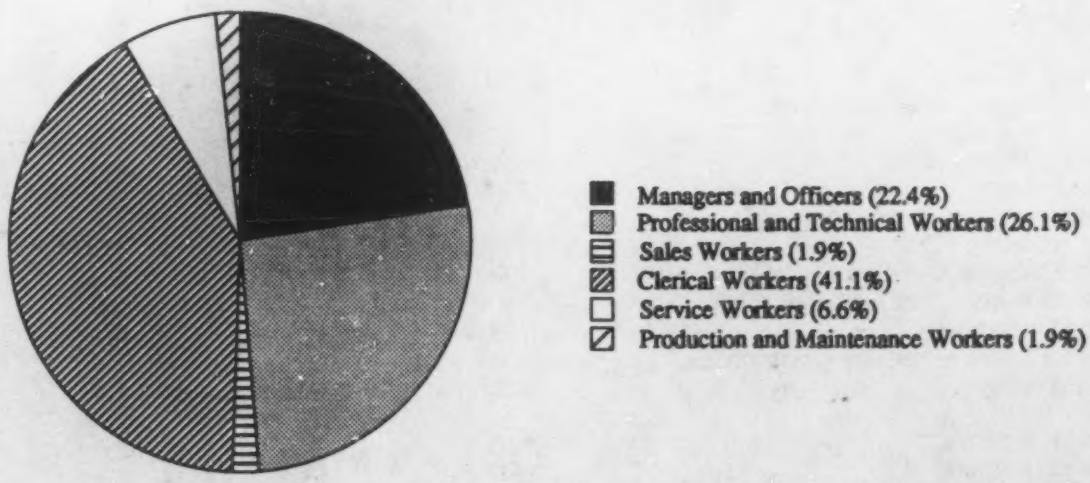
Occupation	Estimated Employment[1/]	Relative Error %	Percent Distribution[1/]
Total Employment	2,730	NA	100.0
Managers and Officers	610	NA	22.4
Professional and Technical Workers	710	NA	26.1
Accountants and Auditors	160	13.6	5.9
Other Financial Specialists	120	NA	4.4
Other Management Support Workers	140	NA	5.1
Financial Analysts	40	18.6	1.5
Other Mathematical Scientists	160	NA	5.9
Lawyers	20	23.8	0.7
Other Professional and Technical Workers	70	NA	2.6
Sales Workers	50	NA	1.9
Clerical Workers	1,120	NA	41.1
Clerical and Administrative Supervisors	100	15.8	3.7
Secretaries	260	16.2	9.5
Receptionists and Information Clerks	20	31.0	0.7
General Office Clerks	90	18.1	3.3
Other Office Machine Operators	50	NA	1.9
Other Clerical and Administrative Workers	600	NA	22.0
Service Workers	180	NA	6.6
Production and Maintenance Workers	50	NA	1.9

[1/] Details may not add to totals due to rounding or data suppression.

TABLE 11
THE FIVE LARGEST SPECIFIC OCCUPATIONS

Occupation	Estimated Employment	Percent Of Total Employment
Secretaries	260	9.5
Accountants and Auditors	160	5.9
Clerical and Administrative Supervisors	100	3.7
General Office Clerks	90	3.3
Financial Analysts	40	1.5

FIGURE 14
PERCENT DISTRIBUTION OF EMPLOYMENT BY MAJOR OCCUPATIONAL CATEGORY



SIC 70

HOTELS, ROOMING HOUSES, CAMPS AND OTHER LODGING PLACES

MAY 1987

This major group includes establishments known to the public as hotels, motor-hotels, tourist courts, rooming and boarding houses and trailering parks and campsites for transients. These establishments are engaged in furnishing lodging, meals and camping facilities, on a fee basis.

Occupation	Estimated Employment[1/]	Relative Error %	Percent Distribution[1/]
Total Employment	28,720	NA	100.0
Managers and Officers	2,400	NA	8.3
Financial Managers	100	20.4	0.3
Marketing, Advertising and Public Relations Managers	70	14.7	0.2
Food Service and Lodging Managers	660	16.3	2.3
General Managers and Top Executives	1,280	12.6	4.5
Other Managers and Administrators	290	NA	1.0
Professional and Technical Workers	450	NA	1.6
Accountants and Auditors	190	28.9	0.7
Personnel and Labor Relations Specialists	30	27.4	0.1
Other Management Support Workers	40	NA	0.1
Other Professional and Technical Workers	190	NA	0.7
Sales Workers	890	NA	3.1
Sales Supervisors	160	30.6	0.6
Sales Agents, Selected Business Services	110	29.7	0.4
Cashiers	520	25.3	1.8
Other Sales Workers	100	NA	0.3
Clerical Workers	4,130	NA	14.4
Clerical and Administrative Supervisors	140	28.4	0.5
Hotel Desk Clerks	2,660	6.9	9.3
Secretaries	350	17.0	1.2
Bookkeeping, Accounting and Auditing Clerks	390	22.1	1.4
Switchboard Operators	130	20.0	0.4
Stock Clerks, Stockroom or Warehouse	50	32.8	0.2
Other Clerical and Administrative Workers	410	NA	1.4
Service Workers	17,910	NA	62.4
Housekeepers	690	33.3	2.4
Other Service Supervisors	180	NA	0.6
Guards and Watch Guards	300	29.6	1.0

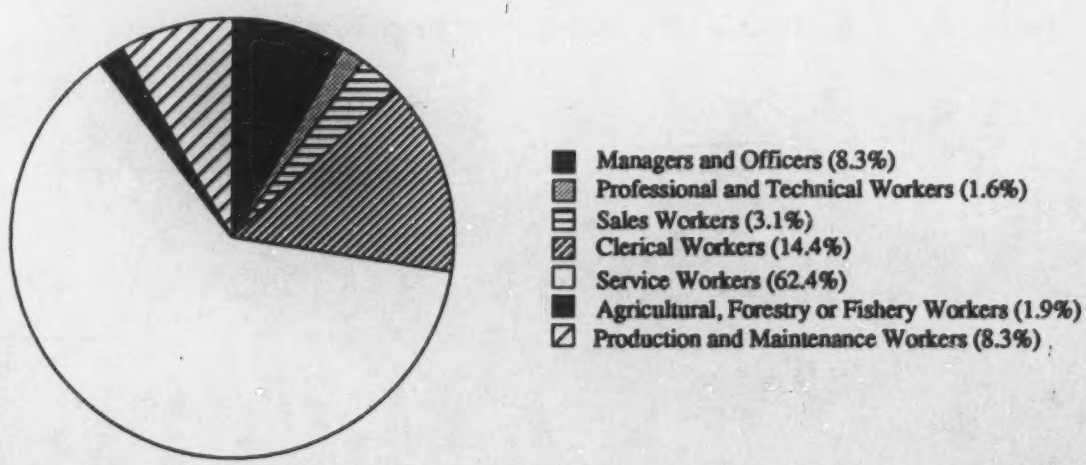
Occupation	Estimated Employment[1/]	Relative Error %	Percent Distribution[1/]
Other Protective Service Workers	50	NA	0.2
Hosts and Hostesses	250	24.8	0.9
Bartenders	560	15.3	1.9
Waiters and Waitresses	4,210	8.8	14.7
Dining Room and Cafeteria Workers	540	15.5	1.9
Bakers, Bread and Pastry	70	34.4	0.2
Cooks, Restaurant	1,410	9.5	4.9
Food and Beverage Preparation Workers	1,170	12.1	4.1
Other Food Service Workers	840	NA	2.9
Maids and Housekeeping Cleaners	6,630	6.6	23.1
Janitors and Cleaners	390	21.0	1.4
Baggage Porters and Bellhops	360	18.7	1.3
Other Service Workers	260	NA	0.9
Agricultural, Forestry or Fishery Workers	540	NA	1.9
Gardeners and Groundskeepers	540	19.7	1.9
Production and Maintenance Workers	2,400	NA	8.3
Maintenance Repairers, General Utility	1,020	19.3	3.6
Other Mechanics, Installers and Repairers	40	NA	0.1
Other Construction Trade Workers	40	NA	0.1
Laundry and Dry Cleaning Machine Operators	1,020	12.7	3.5
Other Machine Operators	50	NA	0.2
Other Motor Vehicle Operators	70	NA	0.2
Other Laborers	160	NA	0.6

[1/] Details may not add to totals due to rounding or data suppression.

TABLE 12
THE FIVE LARGEST SPECIFIC OCCUPATIONS

Occupation	Estimated Employment	Percent Of Total Employment
Maids and Housekeeping Cleaners	6,630	23.1
Waiters and Waitresses	4,210	14.7
Hotel Desk Clerks	2,660	9.3
Cooks, Restaurant	1,410	4.9
General Managers and Top Executives	1,280	4.5

FIGURE 15
PERCENT DISTRIBUTION OF EMPLOYMENT BY MAJOR OCCUPATIONAL CATEGORY


Managers and Officers (8.3%)
Professional and Technical Workers (1.6%)
Sales Workers (3.1%)
Clerical Workers (14.4%)
Service Workers (62.4%)
Agricultural, Forestry or Fishery Workers (1.9%)
Production and Maintenance Workers (8.3%)

SIC 72

PERSONAL SERVICES

MAY 1987

This major group includes establishments primarily engaged in providing services involving the care of the person and of his/her apparel, such as laundries, dry cleaning plants, portrait photographic studios, beauty and barber shops, funeral services and crematories, health clubs and tattoo parlors.

Occupation	Estimated Employment[1/]	Relative Error %	Percent Distribution[1/]
Total Employment	29,750	NA	100.0
Managers and Officers	2,300	NA	7.7
Financial Managers	320	15.5	1.1
Marketing, Advertising and Public Relations Managers	50	23.3	0.2
General Managers and Top Executives	1,900	4.6	6.4
Other Managers and Administrators	30	NA	0.1
Professional and Technical Workers	4,370	NA	14.7
Tax Preparers	270	34.0	0.9
Other Management Support Workers	80	NA	0.3
Lecturers	620	27.3	2.1
Instructors and Coaches, Sports and Physical Training	1,220	22.2	4.1
Licensed Practical Nurses	80	30.2	0.3
Other Health Professionals	230	NA	0.8
Photographers	430	9.0	1.5
Funeral Directors and Morticians	650	6.5	2.2
Embalmers	340	8.8	1.1
Other Professional and Technical Workers	450	NA	1.5
Sales Workers	3,320	NA	11.2
Sales Supervisors	90	17.4	0.3
Sales Representatives, Nonscientific - except Retail	370	16.4	1.3
Counter and Rental Clerks	2,020	8.4	6.8
Cashiers	560	18.1	1.9
News and Street Vendors and Related Sales Workers	250	14.9	0.8
Other Sales Workers	30	NA	0.1
Clerical Workers	3,210	NA	10.8
Secretaries	380	8.5	1.3
Receptionists and Information Clerks	1,520	18.2	5.1
Order Clerks	140	29.8	0.5
Bookkeeping, Accounting and Auditing Clerks	600	7.5	2.0

Occupation	Estimated Employment[1/]	Relative Error %	Percent Distribution[1/]
Payroll and Timekeeping Clerks	20	16.8	0.1
General Office Clerks	410	10.7	1.4
Stock Clerks, Stockroom or Warehouse	30	21.9	0.1
Other Material Recording and Related Workers	40	NA	0.1
Other Clerical and Administrative Workers	70	NA	0.2
Service Workers	7,720	NA	25.9
Service Supervisors	430	13.1	1.4
Maids and Housekeeping Cleaners	210	22.6	0.7
Janitors and Cleaners	570	19.6	1.9
Barbers	470	18.3	1.6
Hairdressers and Cosmetologists	4,720	3.6	15.9
Manicurists	140	28.2	0.5
Shampooers	120	19.9	0.4
Child Care Workers	120	26.7	0.4
Funeral Attendants	540	8.1	1.8
Other Service Workers	400	NA	1.3
Agricultural, Forestry or Fishery Workers	180	NA	0.6
Gardeners or Groundskeepers	180	18.9	0.6
Production and Maintenance Workers	8,650	NA	29.1
Mechanic and Repairer Supervisors	210	16.8	0.7
Production Inspectors	460	11.9	1.5
Machinery Maintenance Mechanics	110	32.9	0.4
Maintenance Repairers, General Utility	170	16.0	0.6
Menders	260	15.6	0.9
Other Mechanics, Installers and Repairers	20	NA	0.1
Shoe and Leather Workers and Repairers, Precision	150	26.6	0.5
Spotters, Dry Cleaning	500	10.0	1.7
Pressers	1,000	11.2	3.3
Precision Photographic Processing Workers	50	16.0	0.2
Other Precision Workers	510	NA	1.7
Sewing Machine Operators, Garment	60	19.5	0.2
Laundry and Dry Cleaning Machine Operators and Tenders	1,480	9.7	5.0
Pressing Machine Operators and Tenders, Textile and Garment	1,600	7.8	5.4
Photographic Processing Machine Operators and Tenders	70	22.5	0.2
Other Machine Operators and Tenders	20	NA	0.1
Pressers, Hand	190	25.9	0.6

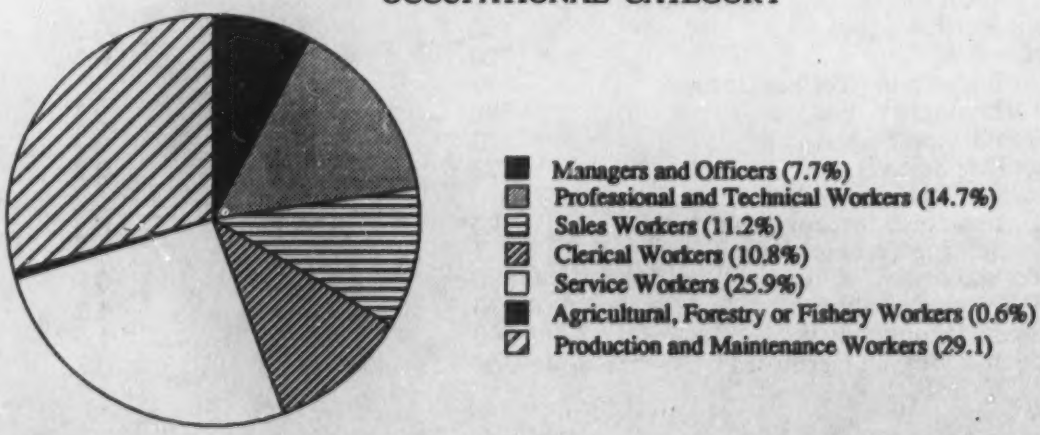
Occupation	Estimated Employment[1/]	Relative Error %	Percent Distribution[1/]
Other Hand Workers	40	NA	0.1
Truck Drivers, Light (incl. Delivery and Route Workers)	250	16.5	0.8
Driver/Sales Workers	600	8.5	2.0
Other Transportation and Material Moving Equipment Operators	40	NA	0.1
Machine Feeders and Offbearers	310	20.7	1.0
Material Movers, Hand	240	16.9	0.8
Hand Packers and Packagers	20	34.7	0.1
Other Laborers	290	NA	1.0

[1/] Details may not add to totals due to rounding or data suppression.

TABLE 13
THE FIVE LARGEST SPECIFIC OCCUPATIONS

Occupation	Estimated Employment	Percent Of Total Employment
Hairdressers and Cosmetologists	4,720	15.9
Counter and Rental Clerks	2,020	6.8
General Managers and Top Executives	1,900	6.4
Pressing Machine Operators and Tenders, Textile and Garment	1,600	5.4
Receptionists and Information Clerks	1,520	5.1

FIGURE 16
PRECENT DISTRIBUTION OF EMPLOYMENT BY MAJOR OCCUPATIONAL CATEGORY


Managers and Officers (7.7%)
Professional and Technical Workers (14.7%)
Sales Workers (11.2%)
Clerical Workers (10.8%)
Service Workers (25.9%)
Agricultural, Forestry or Fishery Workers (0.6%)
Production and Maintenance Workers (29.1)

SIC 73

BUSINESS SERVICES

MAY 1987

This major group includes establishments primarily engaged in rendering services, not elsewhere classified, to business establishments on a fee or contract basis, such as advertising, mailing services, building maintenance services, employment services, management and consulting services, protective services, equipment rental and leasing (except finance leasing), commercial research, development and testing, photofinishing and personnel supply services.

Occupation	Estimated Employment[1/]	Relative Error %	Percent Distribution[1/]
Total Employment	108,940	NA	100.0
Managers and Officers	8,490	NA	7.8
Financial Managers	700	14.8	0.6
Personnel and Labor Relations Managers	230	14.4	0.2
Purchasing Managers	60	21.4	0.1
Marketing, Advertising and Public Relations Managers	950	9.3	0.9
Administrative Services Managers	380	19.3	0.3
Engineering, Math and Natural Sciences Managers	540	23.4	0.5
General Managers and Top Executives	4,520	5.9	4.1
Other Managers and Administrators	1,110	NA	1.0
Professional and Technical Workers	16,470	NA	15.1
Accountants and Auditors	780	32.8	0.7
Purchasing Agents and Buyers, except Farm Products	190	16.5	0.2
Employment Interviewers	420	31.7	0.4
Other Management Support Workers	800	NA	0.7
Other Engineers	1,370	NA	1.3
Electrical Engineering Technicians and Technologists	250	26.2	0.2
Mechanical Engineering Technicians and Technologists	180	28.2	0.2
Drafters	220	28.3	0.2
Other Engineering Technicians and Technologists	380	NA	0.3
Other Physical Scientists	220	NA	0.2
Other Life Scientists	170	NA	0.2
Chemical Technicians and Technologists, except Health	290	34.1	0.3
Other Science Technicians and Technologists	880	NA	0.8
EDP Systems Analysts	1,270	13.0	1.2
Computer Programmers	1,690	29.8	1.6
Computer Programmer Aides	260	15.2	0.2

Occupation	Estimated Employment[1/]	Relative Error %	Percent Distribution[1/]
Operations and Systems Researchers and Analysts, except Computer	190	16.9	0.2
Other Mathematical Scientists	360	NA	0.3
Other Social Scientists	90	NA	0.1
Instructional Coordinators	150	20.8	0.1
Licensed Practical Nurses	850	33.9	0.8
Other Health Professionals and Technicians	2,570	NA	2.4
Writers and Editors	290	19.0	0.3
Technical Writers	180	24.5	0.2
Photographers	470	29.8	0.4
Artists and Related Workers	400	12.8	0.4
Designers	590	18.2	0.5
Other Professional and Technical Workers	960	NA	0.9
Sales Workers	5,520	NA	5.1
Sales Supervisors	400	17.8	0.4
Sales Agents, Business Services	1,010	17.7	0.9
Sales Agents, Advertising	500	15.9	0.5
Other Sales Representatives, Services	240	NA	0.2
Sales Representatives, Scientific, except Retail	330	27.7	0.3
Counter and Rental Clerks	1,640	25.7	1.5
Other Sales and Related Workers	1,400	NA	1.3
Clerical Workers	28,720	NA	26.4
Clerical Supervisors	1,070	10.1	1.0
Credit Checkers	580	32.1	0.5
Adjustment Clerks	100	21.3	0.1
Bill and Account Collectors	960	18.7	0.9
Secretaries	4,880	6.2	4.5
Stenographers	170	28.8	0.2
Receptionists and Information Clerks	1,150	12.8	1.0
Typists	750	21.0	0.7
Typists, Word Processing	1,210	18.5	1.1
Personnel Clerks	120	16.7	0.1
File Clerks	650	15.5	0.6
Statistical Clerks	60	27.1	0.1
Bookkeeping, Accounting and Auditing Clerks	2,320	9.0	2.1
Payroll and Timekeeping Clerks	260	18.4	0.2
Billing, Cost and Rate Clerks	160	31.4	0.1
General Office Clerks	3,880	8.4	3.6
Duplicating Machine Operators	100	21.6	0.1
Mail Machine Operators	190	22.1	0.2
Computer Operators	780	17.4	0.7
Data Entry Keyers	1,820	11.9	1.7
Other Office Machine Operators	960	NA	0.9
Switchboard Operators	1,140	31.0	1.0
Mail Clerks, except Mail Machine Operators and Postal Clerks	540	31.6	0.5

Occupation	Estimated Employment[1/]	Relative Error %	Percent Distribution[1/]
Messengers	220	18.6	0.2
Production, Planning and Expediting Clerks	370	19.2	0.3
Stock Clerks, Stockroom or Warehouse	420	29.6	0.4
Traffic, Shipping and Receiving Clerks	180	31.9	0.2
Other Material Recording and Related Workers	200	NA	0.2
Other Clerical and Administrative Workers	3,480	NA	3.2
Service Workers	31,940	NA	29.3
Housekeepers	200	26.1	0.2
Other Service Supervisors	640	NA	0.6
Guards and Watch Guards	8,360	13.7	7.7
Other Protective Service Workers	1,530	NA	1.4
Janitors and Cleaners	16,160	3.7	14.8
Pest Controllers and Assistants	2,000	17.0	1.8
Other Cleaning and Building Service Workers	850	NA	0.8
Other Service Workers	2,200	NA	2.0
Agricultural, Forestry or Fishery Workers	450	NA	0.4
Gardeners and Groundskeepers	240	34.4	0.2
Other Agricultural, Forestry or Fishery Workers	210	NA	0.2
Production and Maintenance Workers	17,350	NA	15.9
Mechanic and Repairer Supervisors	450	20.8	0.4
Production Inspectors	1,170	25.7	1.1
Other Inspectors, Testers and Graders	160	NA	0.1
Maintenance Repairers, General Utility	330	21.6	0.3
Electronics Repairers, Commercial and Industrial Equipment	60	33.0	0.1
Other Mechanics, Installers and Repairers	1,220	NA	1.1
Painters and Paperhangers	200	31.6	0.2
Other Construction and Extractive Workers	460	NA	0.4
Other Precision Workers	790	NA	0.7
Printing Press Machine Operators	110	20.5	0.1
Photographic Processing Machine Operators and Traders	970	32.1	0.9
Packaging and Filling Machine Operators	150	15.6	0.1
Other Machine Operators and Tenders	700	NA	0.6
Other Hand Workers	1,910	NA	1.8

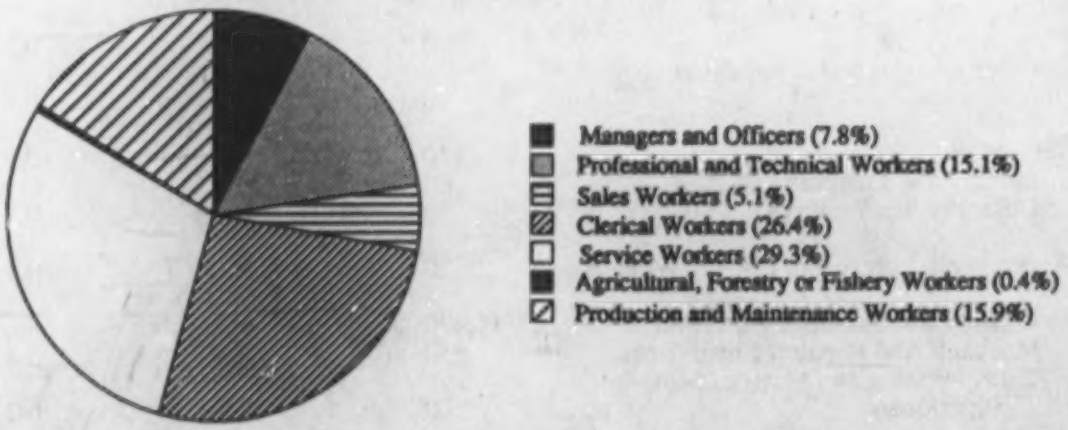
Occupation	Estimated Employment[1/]	Relative Error %	Percent Distribution[1/]
Industrial Truck and Tractor Operators	170	35.0	0.2
Other Transportation and Material Moving Equipment Operators	870	NA	0.8
Material Movers, Hand	2,050	14.2	1.9
Hand Packers and Packagers	2,470	13.8	2.3
Other Laborers	3,110	NA	2.9

[1/] Details may not add to totals due to rounding or data suppression.

TABLE 14
THE FIVE LARGEST SPECIFIC OCCUPATIONS

Occupation	Estimated Employment	Percent Of Total Employment
Janitors and Cleaners	16,160	14.8
Guards and Watch Guards	8,360	7.7
Secretaries	4,880	4.5
General Managers and Top Executives	4,520	4.1
General Office Clerks	3,880	3.6

FIGURE 17
PERCENT DISTRIBUTION OF EMPLOYMENT BY MAJOR OCCUPATIONAL CATEGORY


Managers and Officers (7.8%)
Professional and Technical Workers (15.1%)
Sales Workers (5.1%)
Clerical Workers (26.4%)
Service Workers (29.3%)
Agricultural, Forestry or Fishery Workers (0.4%)
Production and Maintenance Workers (15.9%)

SIC 75

AUTOMOTIVE REPAIR, SERVICES AND GARAGES

MAY 1987

Establishments in this major group are primarily engaged in furnishing automotive rental and leasing, parking, repair and washing services to the general public. Also included in this group are establishments which offer diagnostic, inspection and towing services as well as undercoating, tire retreading and painting.

Occupation	Estimated Employment[1/]	Relative Error %	Percent Distribution[1/]
Total Employment	16,580	NA	100.0
Managers and Officers	1,700	NA	10.2
Financial Managers	190	15.4	1.1
General Managers and Top Executives	1,430	4.6	8.6
Other Managers and Administrators	80	NA	0.5
Professional and Technical Workers	60	NA	0.4
Accountants and Auditors	60	26.4	0.4
Sales Workers	1,640	NA	9.9
Sales Supervisors	300	12.1	1.8
Salespersons, Parts	420	12.4	2.6
Counter and Rental Clerks	530	11.4	3.2
Cashiers	240	24.8	1.4
Other Sales Workers	150	NA	0.9
Clerical Workers	1,680	NA	10.1
Secretaries	510	8.8	3.1
Receptionists and Information Clerks	90	19.0	0.5
Bookkeeping, Accounting and Auditing Clerks	560	8.0	3.4
General Office Clerks	350	11.2	2.1
Stock Clerks, Stockroom or Warehouse	90	20.9	0.5
Other Clerical and Administrative Workers	80	NA	0.5
Service Workers	110	NA	0.7
Janitors and Cleaners	80	20.5	0.5
Other Service Workers	30	NA	0.2
Agricultural, Forestry or Fishery Workers	20	NA	0.1
Production and Maintenance Workers	11,370	NA	68.6
Mechanic and Repairer Supervisors	630	8.4	3.8
Transportation and Material Moving Supervisors	40	29.8	0.2

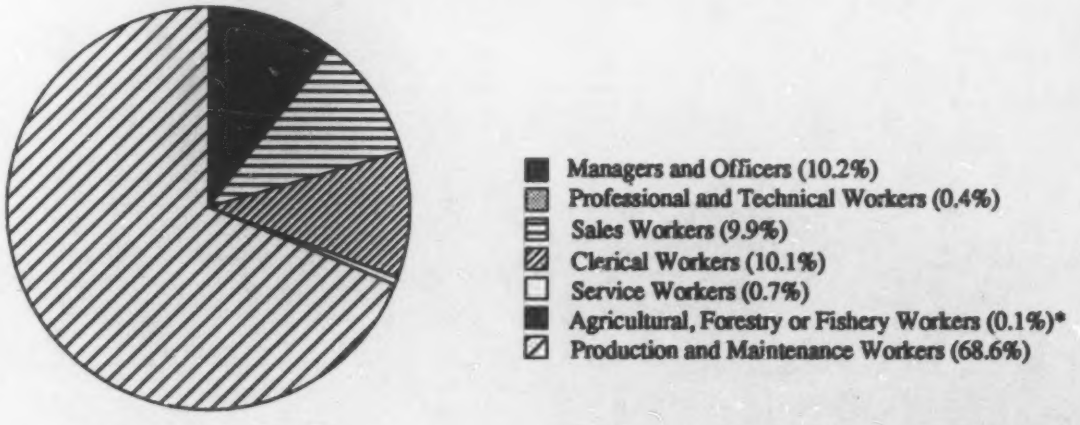
Occupation	Estimated Employment[1/]	Relative Error %	Percent Distribution[1/]
Maintenance Repairers, General Utility	270	24.0	1.5
Automotive Mechanics	3,080	6.0	18.6
Auto Body and Related Repairers	1,830	9.1	11.0
Bus, Truck and Diesel Mechanics	940	13.1	5.7
Tire Repairers and Changers	520	14.1	3.1
Other Mechanics, Installers and Repairers	90	NA	0.5
Machinists	170	29.0	1.0
Painters, Transportation Equipment	210	23.0	1.3
Other Hand Workers	90	NA	0.5
Truck Drivers, Light (incl. Delivery and Route Workers)	220	21.6	1.3
Bus Drivers	80	27.7	0.5
Other Motor Vehicle Operators	380	NA	2.3
Service Station Attendants	190	22.1	1.2
Mechanic and Repairer Helpers	600	13.6	3.6
Vehicle Washers and Equipment Cleaners	1,710	5.3	10.3
Other Laborers	320	NA	1.9

[1/] Details may not add to totals due to rounding or data suppression.

TABLE 15
THE FIVE LARGEST SPECIFIC OCCUPATIONS

Occupation	Estimated Employment	Percent Of Total Employment
Automotive Mechanics	3,080	18.6
Auto Body and Related Repairers	1,830	11.0
Vehicle Washers and Equipment Cleaners	1,710	10.3
General Managers and Top Executives	1,430	8.6
Bus, Truck and Diesel Mechanics	940	5.7

FIGURE 18
PERCENT DISTRIBUTION OF EMPLOYMENT BY MAJOR OCCUPATIONAL CATEGORY


Managers and Officers (10.2%)
Professional and Technical Workers (0.4%)
Sales Workers (9.9%)
Clerical Workers (10.1%)
Service Workers (0.7%)
Agricultural, Forestry or Fishery Workers (0.1%)*
Production and Maintenance Workers (68.6%)

*NOTE: (0.1% is too small to appear on graph).

SIC 76

MISCELLANEOUS REPAIR SERVICES

MAY 1987

This major group includes establishments engaged in miscellaneous repair services such as refrigeration and air conditioning, watch and jewelry repair, furniture repair and repair shops not elsewhere classified. It does not include some repair services such as automotive, clothing or shoe repair.

Occupation	Estimated Employment[1/]	Relative Error %	Percent Distribution[1/]
Total Employment	7,900	NA	100.0
Managers and Officers	790	NA	10.0
Financial Managers	120	15.6	1.5
General Managers and Top Executives	640	5.7	8.1
Other Managers and Administrators	30	NA	0.4
Professional and Technical Workers	240	NA	3.0
Engineers	10	23.1	0.1
Engineering Technicians and Technologists	160	27.8	2.0
Other Professional and Technical Workers	70	NA	0.9
Sales Workers	510	NA	6.5
Sales Supervisors	110	14.9	1.4
Sales Representatives, Nonscientific-except Retail	190	13.6	2.4
Salespersons, Retail	180	20.3	2.3
Other Sales and Related Workers	30	NA	0.4
Clerical Workers	1,090	NA	13.8
Secretaries	400	7.0	5.1
Typists	30	26.9	0.4
Bookkeeping, Accounting and Auditing Clerks	270	10.0	3.4
General Office Clerks	200	11.6	2.5
Stock Clerks, Stockroom or Warehouse	40	19.9	0.5
Traffic, Shipping and Receiving Clerks	60	17.6	0.8
Other Clerical and Administrative Workers	90	NA	1.1
Service Workers	90	NA	1.1
Janitors and Cleaners	70	20.5	0.9
Other Service Workers	20	NA	0.2
Production and Maintenance Workers	5,180	NA	65.6
Mechanic and Repairer Supervisors	210	12.9	2.7

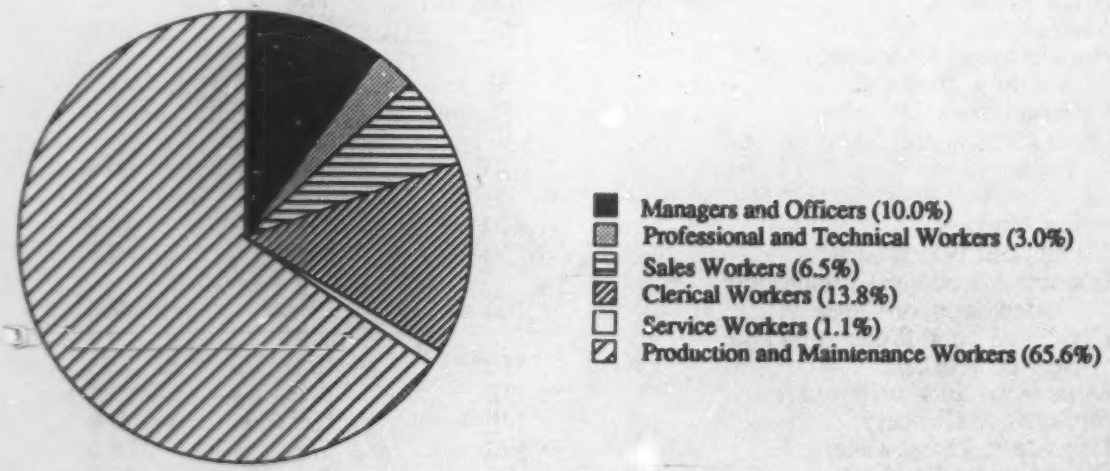
Occupation	Estimated Employment[1/]	Relative Error %	Percent Distribution[1/]
Maintenance Repairers, General Utility	250	17.6	3.2
Radio Mechanics	130	22.2	1.6
Other Communications Equipment Installers and Repairers	60	NA	0.8
Home Entertainment Equipment Repairers	200	15.6	2.5
Electrical Appliance and Tool Repairers	110	32.4	1.4
Electric Motor and Related Repairers	480	16.9	6.1
Electronics Repairers, Commercial and Industrial Equipment	80	21.9	1.0
Heating, Air Conditioning and Refrigeration Mechanics	410	12.3	5.2
Precision Instrument Repairers	150	23.2	1.9
Other Mechanics, Installers and Repairers	570	NA	7.2
Other Construction Trades Workers	160	NA	2.0
Machinists	250	14.9	3.2
Precision Tool Grinders and Sharpeners	150	27.5	1.9
Other Precision Metal Workers	60	NA	0.8
Other Precision Woodworkers	150	NA	1.9
Upholsterers	260	19.0	3.3
Other Precision Workers	40	NA	0.5
Sewing Machine Operators, Non-garment	80	21.5	1.0
Other Machine Operators	20	NA	0.2
Welders and Cutters	650	14.5	8.2
Other Hand Workers	280	NA	3.5
Truck Drivers, Light, (incl. Delivery and Route Workers)	150	13.4	1.9
Other Transportation and Related Workers	40	NA	0.5
Mechanic and Repairer Helpers	40	26.4	0.5
Material Movers, Hand	50	31.1	0.6
Other Laborers	90	NA	1.1

[1/] Details may not add to totals due to rounding or data suppression.

TABLE 16
THE FIVE LARGEST SPECIFIC OCCUPATIONS

Occupation	Estimated Employment	Percent Of Total Employment
Welders and Cutters	650	8.2
General Managers and Top Executives	640	8.1
Electric Motor and Related Repairers	480	6.1
Heating, Air Conditioning and Refrigeration Mechanics	410	5.2
Secretaries	400	5.1

FIGURE 19
PERCENT DISTRIBUTION OF EMPLOYMENT BY MAJOR OCCUPATIONAL CATEGORY



SIC 78

MOTION PICTURES

MAY 1987

This group includes the production and distribution of motion pictures, the showing of motion pictures in commercially operated theaters and those establishments that furnish services to the motion picture industry. Also included are the production for television or other media using film, tape or other means.

Occupation	Estimated Employment[1/]	Relative Error %	Percent Distribution[1/]
Total Employment	3,720	NA	100.0
Managers and Officers	400	NA	10.8
Administrative Services Managers	110	25.2	3.0
General Managers and Top Executives	240	9.5	6.5
Other Managers and Administrators	50	NA	1.3
Professional and Technical Workers	270	NA	7.3
Camera Operators, TV and Motion Pictures	40	31.8	1.1
Film Editors	30	25.3	0.8
Producers, Directors, Actors and Other Entertainers	80	22.2	2.2
Other Professional and Technical Workers	120	NA	3.2
Sales Workers	440	NA	11.8
Sales Representatives, except Scientific and Retail	60	25.1	1.6
Cashiers	350	8.4	9.4
Other Sales Workers	30	NA	0.8
Clerical Workers	190	NA	5.1
Secretaries	60	15.8	1.6
Bookkeeping, Accounting and Auditing Clerks	50	13.7	1.3
General Office Clerks	50	27.2	1.3
Other Clerical and Administrative Workers	30	NA	0.8
Service Workers	1,820	NA	48.9
Guards and Watch Guards	30	30.7	0.8
Counter Attendants - Lunchroom, Coffee Shop, or Cafeteria	260	20.8	7.0
Combined Food Preparation and Service Workers	550	10.0	14.8
Other Food Service Workers	130	NA	3.5
Janitors and Cleaners	140	10.1	3.8
Ushers and Ticket Takers	690	7.4	18.5
Other Service Workers	20	NA	0.5
Production and Maintenance Workers	600	NA	16.1

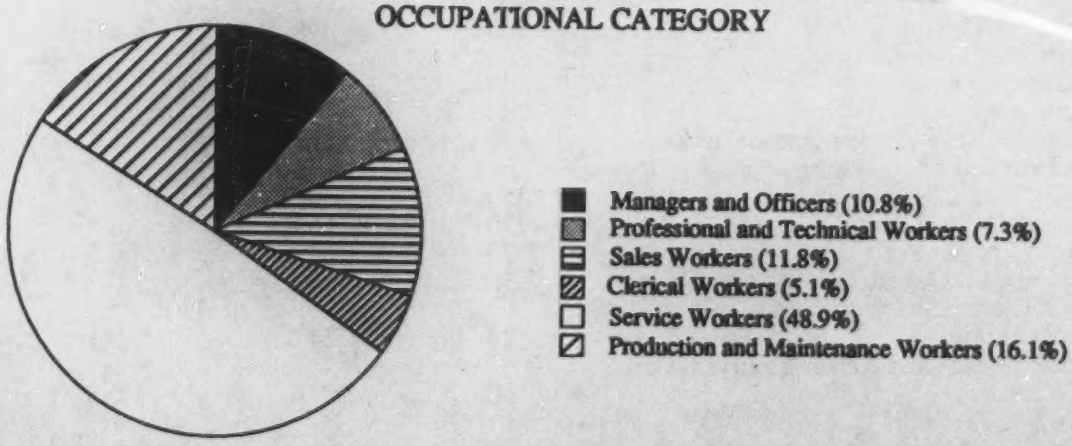
Occupation	Estimated Employment[1/]	Relative Error %	Percent Distribution[1/]
Other Mechanics, Installers and Repairers	20	NA	0.5
Other Construction and Extractive Workers	100	NA	2.7
Other Precision Workers	20	NA	0.5
Motion Picture Projectionists	380	10.2	10.2
Other Transportation and Material Moving Equipment Operators	40	NA	1.1
Other Laborers	40	NA	1.1

[1/] Details may not add to totals due to rounding or data suppression.

TABLE 17
THE FIVE LARGEST SPECIFIC OCCUPATIONS

Occupation	Estimated Employment	Percent Of Total Employment
Ushers and Ticket Takers	690	18.5
Combined Food Preparation and Service Workers	550	14.8
Motion Picture Projectionists	380	10.2
Cashiers	350	9.4
Counter Attendants - Lunchroom, Coffee Shop or Cafeteria	260	7.0

FIGURE 20
PERCENT DISTRIBUTION OF EMPLOYMENT BY MAJOR OCCUPATIONAL CATEGORY



SIC 79

AMUSEMENT AND RECREATION SERVICES, EXCEPT MOTION PICTURES

MAY 1987

Establishments in this group are engaged in providing amusement or entertainment on payment of a fee or admission charge. Dance halls and schools, entertainers, bowling alleys, billiard establishments, sports clubs, racing operations, golf courses and amusement parks are included in this group.

Occupation	Estimated Employment[1/]	Relative Error %	Percent Distribution[1/]
Total Employment	16,820	NA	100.0
Managers and Officers	1,370	NA	8.2
Financial Managers	160	19.7	1.0
Food Service and Lodging Managers	170	11.5	1.0
General Managers and Top Executives	700	7.5	4.2
Other Managers and Administrators	340	NA	2.0
Professional and Technical Workers	2,140	NA	12.7
Accountants and Auditors	30	26.8	0.2
Other Management Support Workers	20	NA	0.1
Recreation Workers	480	28.5	2.9
Instructors, Nonvocational	280	19.6	1.7
Instructors and Coaches, Sports and Physical Training	720	19.0	4.3
Public Relations Specialists	20	28.0	0.1
Musicians, Instrumental	220	23.1	1.3
Athletes, Coaches, Umpires and Related Workers	230	10.4	1.4
Other Professional and Technical Workers	140	NA	0.8
Sales Workers	1,040	NA	6.2
Sales Supervisors	20	27.5	0.1
Counter and Rental Clerks	280	21.6	1.7
Cashiers	660	13.3	3.9
Other Sales Workers	80	NA	0.5
Clerical Workers	1,100	NA	6.5
Clerical and Administrative Supervisors	50	21.3	0.3
Secretaries	280	11.2	1.7
Receptionists and Information Clerks	170	21.0	1.0
Bookkeeping, Accounting and Auditing Clerks	350	8.5	2.1
General Office Clerks	130	16.8	0.8
Data Entry Keyers	20	22.4	0.1
Switchboard Operators	30	26.4	0.2
Stock Clerks, Stockroom or Warehouse	20	24.6	0.1
Other Clerical and Administrative Workers	50	NA	0.3

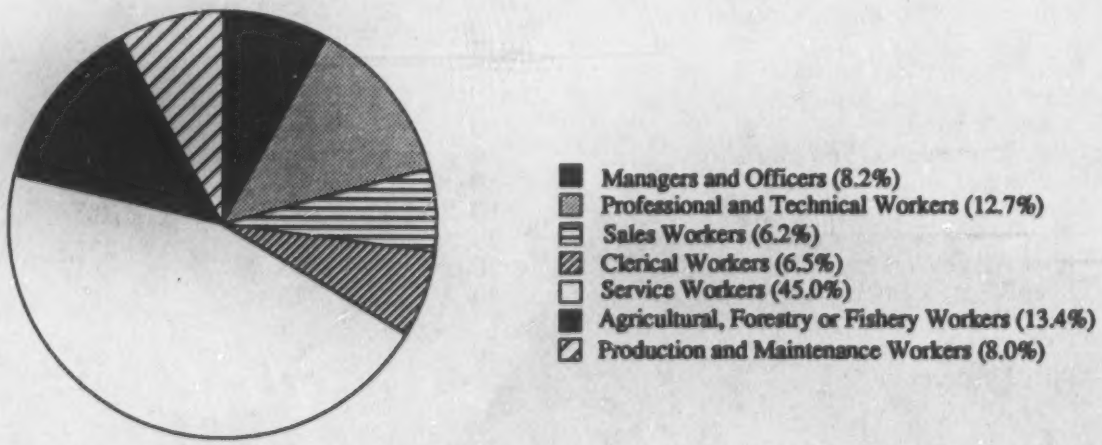
Occupation	Estimated Employment[1/]	Relative Error %	Percent Distribution[1/]
Service Workers	7,570	NA	45.0
Housekeepers	30	23.4	0.2
Other Service Supervisors	100	NA	0.6
Guards and Watch Guards	250	20.1	1.5
Hosts and Hostesses	60	16.5	0.3
Bartenders	300	9.8	1.8
Waiters and Waitresses	1,360	8.3	8.1
Dining Room and Cafeteria Attendants	230	22.3	1.4
Counter Attendants - Lunchroom, Coffee Shop or Cafeteria	250	26.1	1.5
Cooks, Restaurant	430	7.8	2.6
Cooks, Short Order	330	10.2	2.0
Food Preparation Workers	460	11.1	2.7
Combined Food Preparation and Service Workers	360	23.6	2.1
Other Food Service Workers	240	NA	1.4
Maids and Housekeeping Cleaners	210	14.9	1.2
Janitors and Cleaners	450	9.5	2.7
Amusement and Recreation Attendants	1,600	12.2	9.5
Ushers and Ticket Takers	50	25.2	0.3
Wardrobe, Locker and Dressing Room Attendants	60	23.9	0.4
Child Care Workers	60	19.5	0.4
Other Service Workers	740	NA	4.4
Agricultural, Forestry or Fishery Workers	2,260	NA	13.4
Gardeners and Groundskeepers	2,200	7.0	13.1
Other Agricultural, Forestry or Fishery Workers	60	NA	0.3
Production and Maintenance Workers	1,340	NA	8.0
Mechanic or Repairer Supervisors	40	31.1	0.2
Maintenance Repairers, General Utility	610	10.9	3.6
Small Engine Specialists	50	17.1	0.3
Other Mechanics, Installers and Repairers	360	NA	2.1
Other Construction and Extractive Workers	80	NA	0.5
Machinists	80	13.9	0.5
Other Machine Operators and Tenders	20	NA	0.1
Other Hand Workers	20	NA	0.1
Other Motor Vehicle Operators	40	NA	0.2
Other Transportation and Material Moving Equipment Operators	20	NA	0.1
Other Laborers	20	NA	0.1

[1/] Details may not add to totals due to rounding or data suppression.

TABLE 18
THE FIVE LARGEST SPECIFIC OCCUPATIONS

Occupation	Estimated Employment	Percent Of Total Employment
Gardeners and Groundskeepers	2,200	13.1
Amusement and Recreation Attendants	1,600	9.5
Waiters and Waitresses	1360	8.1
Instructors and Coaches, Sports and Physical Training	720	4.3
General Managers and Top Executives	700	4.2

FIGURE 21
PERCENT DISTRIBUTION OF EMPLOYMENT BY MAJOR OCCUPATIONAL CATEGORY


Managers and Officers (8.2%)
Professional and Technical Workers (12.7%)
Sales Workers (6.2%)
Clerical Workers (6.5%)
Service Workers (45.0%)
Agricultural, Forestry or Fishery Workers (13.4%)
Production and Maintenance Workers (8.0%)

SIC 80

Except 806

HEALTH SERVICES

MAY 1987

This major grouping includes those establishments primarily engaged in furnishing medical, surgical and other health services to the general population. Associations primarily engaged in providing health services to members are included, but those which limit services to the provision of insurance against medical costs are classified elsewhere. Hospitals, SIC 806, were not surveyed this year, but were included in the 1986 OES survey of manufacturing.

Occupation	Estimated Employment[1/]	Relative Error %	Percent Distribution[1/]
Total Employment	73,930	NA	100.0
Managers and Officers	2,020	NA	2.7
Financial Managers	210	20.8	0.3
Personnel and Labor Relations Managers	70	27.9	0.1
Administrative Services Managers	130	23.1	0.2
Medical and Health Services Managers	520	15.8	0.7
Food Service and Lodging Managers	120	23.9	0.2
General Managers and Top Executives	850	12.4	1.1
Other Managers and Administrators	120	NA	0.2
Professional and Technical Workers	25,790	NA	34.9
Other Management Support Workers	180	NA	0.2
Psychologists	210	31.0	0.3
Social Workers, Medical and Psychiatric	390	14.0	0.5
Social Workers, except Medical and Psychiatric	160	27.9	0.2
Social Service Technicians	60	28.7	0.1
Recreation Workers	210	22.4	0.3
Other Teachers and Related Workers	80	NA	0.1
Physicians and Surgeons	4,970	6.9	6.7
Dentists	1,560	9.0	2.1
Optometrists	350	11.4	0.5
Other Health Practitioners	390	NA	0.5
Occupational Therapists	70	25.4	0.1
Physical Therapists	390	12.8	0.5
Speech Pathologists and Audiologists	130	32.7	0.2
Recreational Therapists	220	17.3	0.3
Registered Nurses	5,270	10.2	7.1
Licensed Practical Nurses	4,290	7.7	5.8
Physician Assistants	620	25.6	0.8
Opticians	280	22.4	0.4
Dietitians and Nutritionists	80	18.2	0.1
Dietetic Technicians	90	34.5	0.1
Medical Laboratory Technologists	870	12.8	1.2
Medical Laboratory Technicians	1,020	16.2	1.4
Dental Hygienists	2,160	8.3	2.9

Occupation	Estimated Employment[1/]	Relative Error %	Percent Distribution[1/]
Medical Records Technicians	360	16.0	0.5
and Technologists	660	27.3	0.9
Radiology Technicians			
Other Health Professionals and Technicians	580	NA	0.8
Other Professional and Technical Workers	140	NA	0.2
	320	NA	0.4
Sales Workers	280	30.2	0.4
Cashiers	40	NA	0.1
Other Sales Workers			
	16,140	NA	21.8
Clerical Workers			
Clerical and Administrative Supervisors	1,260	12.8	1.7
	180	12.5	0.2
Insurance Claims Clerks	140	15.4	0.2
Bill and Account Collectors	3,480	11.2	4.7
Medical Secretaries	1,020	NA	1.4
Other Secretaries			
Receptionists and Information Clerks	4,290	8.2	5.8
	700	19.2	0.9
Typists	250	26.8	0.3
File Clerks	50	21.3	0.1
Order Clerks			
Bookkeeping, Accounting and Auditing Clerks	1,500	11.9	2.0
	60	26.7	0.1
Payroll and Timekeeping Clerks	530	28.9	0.7
Billing, Cost and Rate Clerks	1,480	18.6	2.0
General Office Clerks	70	20.1	0.1
Computer Operators	140	11.3	0.2
Data Entry Keyers	290	25.9	0.4
Switchboard Operators	160	24.4	0.2
Messengers			
Stock Clerks, Stockroom or Warehouse	50	19.0	0.1
Other Clerical and Administrative Workers	490	NA	0.7
	27,510	NA	37.3
Service Workers	190	16.7	0.3
Housekeepers	50	NA	0.1
Other Service Supervisors	800	21.4	1.1
Food Service, Outside	900	8.9	1.2
Cooks, Institution or Cafeteria	1,600	10.9	2.2
Food Preparation Workers	450	NA	0.6
Other Food Service Workers	3,450	4.5	4.7
Dental Assistants	2,810	14.6	3.8
Medical Assistants	12,840	3.5	17.4
Nurse Aides and Orderlies	420	21.4	0.6
Home Health Aides	240	17.7	0.3
Physical Therapy Assistants	40	15.9	0.1
Pharmacy Assistants	70	NA	0.1
Other Health Service Workers			

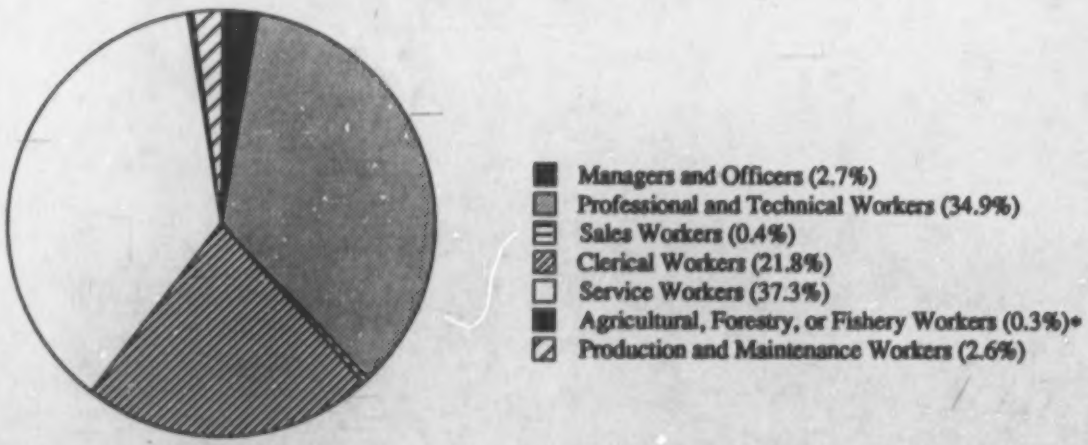
Occupation	Estimated Employment[1/]	Relative Error %	Percent Distribution[1/]
Maids and Housekeeping Cleaners	2,470	7.1	3.3
Janitors and Cleaners	750	19.1	1.0
Other Service Workers	430	NA	0.6
Agricultural, Forestry or Fishery Workers	210	NA	0.3
Production and Maintenance Workers	1,940	NA	2.6
Mechanic and Repairer Supervisors	50	34.6	0.1
Maintenance Repairers, General Utility	330	16.8	0.4
Other Mechanics, Installers and Repairers	170	NA	0.2
Precision Dental Laboratory Technicians	1,000	12.2	1.4
Laundry and Dry Cleaning Machine Operators	320	19.5	0.4
Other Production and Maintenance Workers	70	NA	0.1

1/ Details may not add to totals due to rounding or data suppression.

TABLE 19
THE FIVE LARGEST SPECIFIC OCCUPATIONS

Occupation	Estimated Employment	Percent Of Total Employment
Nurse Aides and Orderlies	12,840	17.4
Registered Nurses	5,270	7.1
Physicians and Surgeons	4,970	6.7
Licensed Practical Nurses	4,290	5.8
Receptionists and Information Clerks	4,290	5.8

FIGURE 22
PERCENT DISTRIBUTION OF EMPLOYMENT BY MAJOR OCCUPATIONAL CATEGORY


Managers and Officers (2.7%)
Professional and Technical Workers (34.9%)
Sales Workers (0.4%)
Clerical Workers (21.8%)
Service Workers (37.3%)
Agricultural, Forestry, or Fishery Workers (0.3%)*
Production and Maintenance Workers (2.6%)

*NOTE: (0.3% is too small to appear on graph).

SIC 81

LEGAL SERVICES

MAY 1987

This major group includes those establishments offering legal advice or legal services. The head or heads of these establishments are members of the bar. Legal Services has only one three-digit division, SIC 811.

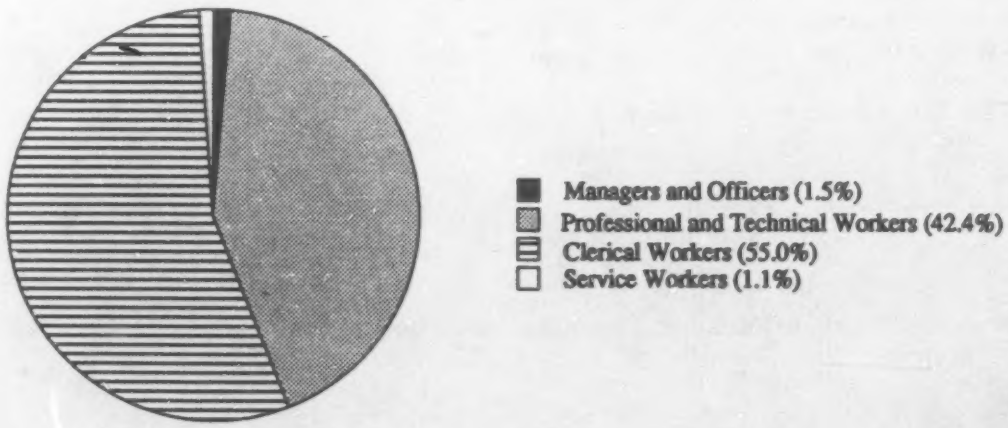
Occupation	Estimated Employment[1/]	Relative Error %	Percent Distribution[1/]
Total Employment	11,990	NA	100.0
Managers and Officers	180	NA	1.5
General Managers and Top Executives	130	34.1	1.1
All Other Managers and Administrators	50	NA	0.4
Professional and Technical Workers	5,080	NA	42.4
Lawyers	3,440	6.9	28.7
Law Clerks	190	28.5	1.6
Paralegal Personnel	1,370	11.1	11.4
Other Professional and Technical Workers	80	NA	0.7
Clerical Workers	6,600	NA	55.0
Legal Secretaries	4,610	6.5	34.7
Receptionists and Information Clerks	610	16.1	5.1
Typists, Word Processing	510	15.3	4.3
File Clerks	50	34.0	0.4
Bookkeeping, Accounting and Auditing Clerks	450	15.0	3.7
Data Entry Keyers	70	26.9	0.6
Messengers	190	22.7	1.6
Other Clerical and Administrative Workers	560	NA	4.7
Service Workers	130	NA	1.1

[1/] Details may not add to totals due to rounding or data suppression.

TABLE 20
THE FIVE LARGEST SPECIFIC OCCUPATIONS

Occupation	Estimated Employment	Percent Of Total Employment
Legal Secretaries	4,610	34.7
Lawyers	3,440	28.7
Paralegal Personnel	1,370	11.4
Receptionists and Information Clerks	610	5.1
Typists, Word Processing	510	4.3

FIGURE 23
PERCENT DISTRIBUTION OF EMPLOYMENT BY MAJOR OCCUPATIONAL CATEGORY



SIC 83

SOCIAL SERVICES

MAY 1987

This major group includes establishments providing social and rehabilitation services to those persons with social or personal problems requiring special services and to the handicapped and disadvantaged. Also included are organizations soliciting funds to be used directly for these services.

Occupation	Estimated Employment[1/]	Relative Error %	Percent Distribution[1/]
Total Employment	28,220	NA	100.0
Managers and Officers	2,650	NA	9.4
Financial Managers	210	11.9	0.7
Personnel and Labor Relations Managers	60	23.9	0.2
Marketing, Advertising and Public Relations Managers	70	18.4	0.2
Administrative Services Managers	190	11.2	0.7
Education Administrators	270	20.2	1.0
Medical and Health Services Managers	90	16.2	0.3
Food Service and Lodging Managers	180	17.1	0.6
General Managers and Top Executives	1,380	5.5	4.9
Other Managers and Administrators	200	NA	0.7
Professional and Technical Workers	8,810	NA	31.2
Accountants and Auditors	110	21.5	0.4
Other Financial Specialists	30	NA	0.1
Employment Interviewers	30	21.2	0.1
Personnel and Labor Relations Specialists	90	28.6	0.3
Other Management Support Workers	40	NA	0.1
Psychologists	4	29.8	0.1
Social Workers, Medical and Psychiatric	380	20.1	1.3
Social Workers, except Medical and Psychiatric	830	8.3	2.9
Social Services Technicians	860	12.2	3.0
Recreation Workers	250	13.6	0.9
Teachers, Preschool and Kindergarten	4,230	7.8	15.0
Teachers, Elementary	30	14.6	0.1
Teachers and Instructors, Vocational Education	280	26.4	1.0
Instructors, Nonvocational Education	150	22.0	0.5
Other Teachers and Related Workers	220	NA	0.8
Vocational and Educational Counselors	110	14.0	0.4
Instructional Coordinators	20	9.6	0.1
Physical Therapists	20	23.5	0.1

Occupation	Estimated Employment[1/]	Relative Error %	Percent Distribution[1/]
Registered Nurses	400	8.0	1.4
Licensed Practical Nurses	280	11.2	1.0
Dietitians and Nutritionists	50	15.2	0.2
Other Health Professionals and Technicians	200	NA	0.7
Public Relations Specialists	50	23.4	0.2
Other Professional and Technical Workers	110	NA	0.4
Sales Workers	180	NA	0.6
Sales Supervisors	30	18.1	0.1
Cashiers	70	8.4	0.2
Other Sales Workers	80	NA	0.3
Clerical Workers	3,920	NA	13.9
Clerical and Administrative Supervisors	100	16.2	0.4
Welfare Eligibility Workers	50	11.3	0.2
Teacher Aides and Educational Assistants	1,730	13.2	6.1
Secretaries	820	5.6	2.9
Receptionists and Information Clerks	190	10.3	0.7
Typists	50	14.4	0.2
Bookkeeping, Accounting and Auditing Clerks	450	9.4	1.6
Payroll and Timekeeping Clerks	30	16.3	0.1
General Office Clerks	300	9.4	1.1
Data Entry Keyers	20	30.9	0.1
Switchboard Operators	30	20.0	0.1
Other Clerical and Administrative Workers	150	NA	0.5
Service Workers	10,650	NA	37.7
Housekeepers	190	1.6	0.7
Other Service Supervisors	350	NA	1.2
Guards and Watch Guards	30	27.7	0.1
Hosts and Hostesses	50	6.2	0.2
Waiters and Waitresses	130	32.4	0.5
Dining Room and Cafeteria Attendants	40	32.1	0.1
Cooks, Institutional or Cafeteria	980	7.2	3.5
Food Preparation Workers	440	12.9	1.6
Other Food Service Workers	70	NA	0.2
Nurse Aides and Orderlies	2,650	7.4	9.4
Home Health Aides	880	19.8	3.1
Other Health Service Workers	60	NA	0.2
Maids and Housekeeping Cleaners	400	14.4	1.4
Janitors and Cleaners	250	11.5	0.9
Social Welfare Service Aides	330	2.8	1.2
Child Care Workers	3,740	11.7	13.2
Other Service Workers	60	NA	0.2

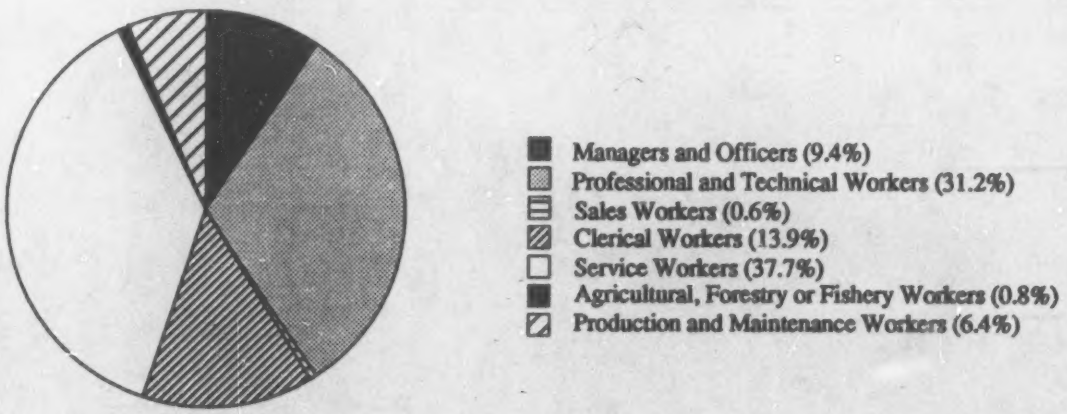
Occupation	Estimated Employment[1/]	Relative Error %	Percent Distribution[1/]
Agricultural, Forestry or Fishery Workers	220	NA	0.8
Gardeners and Groundskeepers	130	17.5	0.5
Other Agricultural, Forestry or Fishery Workers	90	NA	0.3
Production and Maintenance Workers	1,790	NA	6.4
Mechanic and Repairer Supervisors	290	24.1	1.0
Inspectors and Related Occupations	30	16.3	0.1
Maintenance Repairers, General Utility	210	11.1	0.7
Carpenters	110	5.6	0.4
Laundry and Dry Cleaning Machine Operators	30	31.7	0.1
Other Machine Operators	50	NA	0.2
Hand Workers, incl. Assemblers and Fabricators	380	9.3	1.3
Truck Drivers, Light (incl. Delivery and Route Workers)	100	14.1	0.4
Bus Drivers	210	17.2	0.7
Bus Drivers, School	170	24.6	0.6
Other Motor Vehicle Operators	40	NA	0.1
Other Transportation and Material Moving Equipment Operators	40	NA	0.1
Material Movers, Hand	30	15.5	0.1
Other Laborers	100	NA	0.4

[1/] Details may not add to totals due to rounding or data suppression.

TABLE 21
THE FIVE LARGEST SPECIFIC OCCUPATIONS

Occupation	Estimated Employment	Percent Of Total Employment
Teachers, Preschool and Kindergarten	4,230	15.0
Child Care Workers	3,740	13.2
Nurses Aides and Orderlies	2,650	9.4
Teacher Aides and Educational Assistants	1,730	6.1
General Managers and Top Executives	1,380	4.9

FIGURE 24
PERCENT DISTRIBUTION OF EMPLOYMENT BY MAJOR OCCUPATIONAL CATEGORY


Managers and Officers (9.4%)
Professional and Technical Workers (31.2%)
Sales Workers (0.6%)
Clerical Workers (13.9%)
Service Workers (37.7%)
Agricultural, Forestry or Fishery Workers (0.8%)
Production and Maintenance Workers (6.4%)

SIC 86

EXCEPT 866

MEMBERSHIP ORGANIZATIONS

MAY 1987

This major group includes organizations operating on a membership basis for the promotion of the interest of the members. Included are trade associations, professional membership organizations, labor unions and political organizations.

Occupation	Estimated Employment[1/]	Relative Error %	Percent Distribution[1/]
Total Employment	8,740	NA	100.0
Managers and Officers	1,250	NA	14.3
Financial Managers	80	17.0	0.9
Personnel and Labor Relations Managers	40	38.2	0.5
Marketing, Advertising and Public Relations Managers	120	24.1	1.4
Administrative Services Managers	150	21.6	1.7
Food Service and Lodging Managers	50	24.6	0.6
General Managers and Top Executives	580	11.2	6.6
Other Managers and Administrators	230	NA	2.6
Professional and Technical Workers	2,600	NA	29.7
Accountants and Auditors	40	25.4	0.4
Personnel and Labor Relations Specialists	720	9.7	8.2
Other Management Support Workers	90	NA	1.0
Computer Programmers	20	28.9	0.2
Social Workers, except Medical and Psychiatric	50	23.0	0.6
Recreation Workers	710	14.5	8.1
Instructors, Nonvocational Education	40	23.2	0.5
Instructors and Coaches, Sports and Physical Training	480	10.5	5.5
Other Teachers and Related Workers	90	NA	1.0
Other Health Professionals and Technicians	20	NA	0.2
Writers and Editors	40	28.1	0.5
Public Relations Specialists	70	16.2	0.8
Other Professional and Technical Workers	230	NA	2.6
Sales Workers	320	NA	3.7
Sales Supervisors	90	23.8	1.0
Other Sales and Related Workers	230	NA	2.6
Clerical Workers	2,290	NA	26.2
Clerical and Administrative Supervisors	160	12.1	1.8
Secretaries	720	9.9	8.2

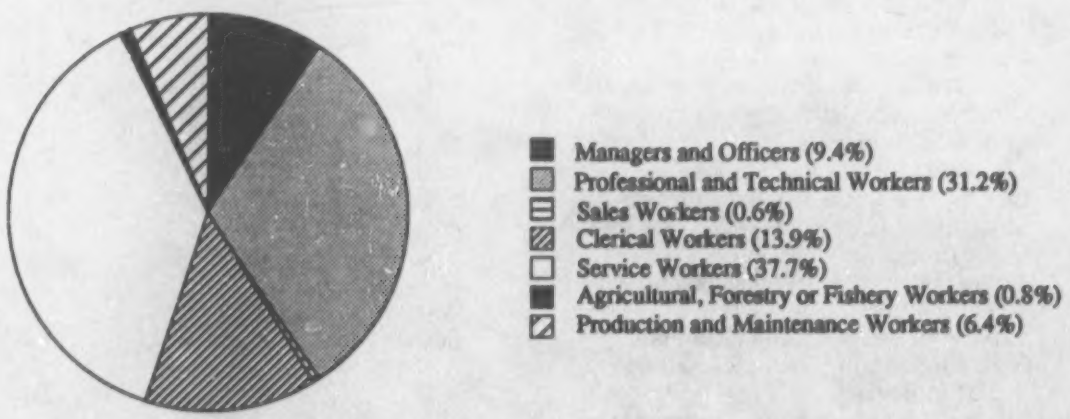
Occupation	Estimated Employment[1/]	Relative Error %	Percent Distribution[1/]
Receptionists and Information Clerks	300	6.3	3.4
Typists	60	23.7	0.7
Typists, Word Processing	70	18.9	0.8
Bookkeeping, Accounting and Auditing Clerks	260	9.9	3.0
General Office Clerks	390	15.5	4.5
Switchboard Operators	40	15.2	0.5
Mail Clerks, except Machine Operators and Postal Clerks	20	25.8	0.2
Stock Clerks, Stockroom and Warehouse	30	6.4	0.3
Other Clerical and Administrative Workers	240	NA	2.7
Service Workers	1,870	NA	21.4
Housekeepers	50	26.0	0.6
Other Service Supervisors	110	NA	1.3
Guards and Watch Guards	80	32.8	0.9
Bartenders	190	22.9	2.2
Waiters and Waitresses	200	22.3	2.3
Cooks, Restaurant	80	25.0	0.9
Cooks, Institution or Cafeteria	50	28.4	0.6
Food Preparation Workers	240	13.5	2.7
Other Food Service Workers	80	NA	0.9
Maids and Housekeeping Cleaners	140	23.2	1.6
Janitors and Cleaners	240	11.4	2.7
Amusement and Recreation Attendants	100	17.4	1.1
Child Care Workers	200	19.4	2.3
Other Service Workers	110	NA	1.3
Agricultural, Forestry or Fishery Workers	90	NA	1.0
Gardeners and Groundskeepers	70	22.2	0.8
Other Agricultural, Forestry or Fishery Workers	20	NA	0.2
Production and Maintenance Workers	320	NA	3.7
Mechanic and Repairer Supervisors	40	22.5	0.5
Maintenance Repairers, General Utility	130	24.8	1.5
Other Construction and Extractive Workers	30	NA	0.3
Other Machine Operators and Tenders	60	NA	0.7
Other Transportation and Material Moving Equipment Operators	40	NA	0.5
Other Laborers	20	NA	0.2

[1/] Details may not add to total due to rounding or data suppression.

TABLE 22
THE FIVE LARGEST SPECIFIC OCCUPATIONS

Occupation	Estimated Employment	Percent Of Total Employment
Secretaries	720	8.2
Personnel and Labor Relations Specialists	720	8.2
Recreation Workers	710	8.1
General Managers and Top Executives	580	6.6
Instructors and Coaches, Sports and Physical Training	480	5.5

FIGURE 25
PERCENT DISTRIBUTION OF EMPLOYMENT BY MAJOR OCCUPATIONAL CATEGORY


Managers and Officers (9.4%)
Professional and Technical Workers (31.2%)
Sales Workers (0.6%)
Clerical Workers (13.9%)
Service Workers (37.7%)
Agricultural, Forestry or Fishery Workers (0.8%)
Production and Maintenance Workers (6.4%)

SIC 89

MISCELLANEOUS SERVICES

MAY 1987

This major group includes establishments engaged in performing services, not elsewhere classified, such as those rendered by engineers, architects, surveyors, scientists, bookkeepers, authors, lecturers, radio commentators, weather forecasters, writers and artists. This group also includes non-commercial establishments primarily engaged in educational, scientific and research activities.

Occupation	Estimated Employment[1/]	Relative Error %	Percent Distribution[1/]
Total Employment	25,280	NA	100.0
Managers and Officers	2,220	NA	8.7
Financial Managers	350	14.9	1.4
Personnel and Labor Relations Managers	60	7.8	0.2
Marketing, Advertising and Public Relations Managers	90	22.8	0.4
Administrative Services Managers	80	18.2	0.3
Engineering, Mathematics and Natural Science Managers	240	17.8	0.9
General Managers and Top Executives	1,010	10.5	4.0
Other Managers and Administrators	390	NA	1.5
Professional and Technical Workers	15,090	NA	59.7
Tax Preparers	470	22.9	1.9
Accountants and Auditors	3,520	6.2	13.9
Other Financial Specialists	60	NA	0.2
Purchasing Agents and Buyers, except Farm Products	20	17.6	0.1
Personnel and Labor Relations Specialists	20	18.6	0.1
Cost Estimators	70	32.9	0.3
Construction and Building Inspectors	150	32.2	0.6
Other Management Support Workers	210	NA	0.8
Chemical Engineers	50	25.2	0.2
Civil Engineers, incl. Traffic	810	14.8	3.2
Electrical and Electronic Engineers	530	21.9	2.1
Mechanical Engineers	440	22.8	1.7
Other Engineers	610	NA	2.4
Architects, except Landscape and Marine	1,050	17.6	4.2
Surveyors and Mapping Scientists	800	20.5	3.2
Civil Engineering Technicians and Technologists	520	20.1	2.1
Electrical and Electronic Technicians and Technologists	180	25.3	0.7
Drafters	2,070	8.3	8.2

Occupation	Estimated Employment[1/]	Relative Error %	Percent Distribution[1/]
Surveying and Mapping Scientists	1,170	18.2	4.6
Other Engineering Technicians and Technologists	430	NA	1.7
Geologists, Geophysicists and Oceanographers	50	27.6	0.2
Other Physical Scientists	200	NA	0.8
Biological Scientists	260	13.3	1.0
Other Life Scientists	50	NA	0.2
Other Science Technicians and Technologists	200	NA	0.8
EDP Systems Analysts	110	17.5	0.4
Computer Programmers	160	30.6	0.6
Computer Programmer Aides	20	8.9	0.1
Other Mathematical Scientists	140	NA	0.6
Other Social Scientists	90	NA	0.4
Librarians, Professional	20	34.8	0.1
Other Health Professionals and Technicians	90	NA	0.4
Writers and Editors	30	17.3	0.1
Technical Writers	30	28.0	0.1
Public Relations Specialists	20	26.2	0.1
Designers	250	33.7	1.0
Other Professional and Technical Workers	190	NA	0.7
Sales Workers	140	NA	0.6
Clerical Workers	6,230	NA	24.7
Clerical and Administrative Supervisors	420	13.0	1.7
Secretaries	1,850	5.3	7.3
Receptionists and Information Clerks	220	15.6	0.9
Typists	140	28.2	0.5
Typists, Word Processing	220	13.9	0.9
Personnel Clerks	20	22.1	0.1
File Clerks	20	33.5	0.1
Order Clerks	20	19.6	0.1
Bookkeeping, Accounting and Auditing Clerks	1,730	9.7	6.8
Payroll and Timekeeping Clerks	20	25.6	0.1
General Office Clerks	630	15.0	2.5
Duplicating Machine Operators	20	18.8	0.1
Computer Operators	280	22.1	1.1
Data Entry Keyers	300	21.4	1.2
Switchboard Operators	40	15.1	0.2
Mail Clerks, except Machine Operators and Postal Clerks	20	21.0	0.1
Messengers	30	30.4	0.1
Stock Clerks, Stockroom and Warehouse	30	25.8	0.1
Other Clerical and Administrative Workers	220	NA	0.9

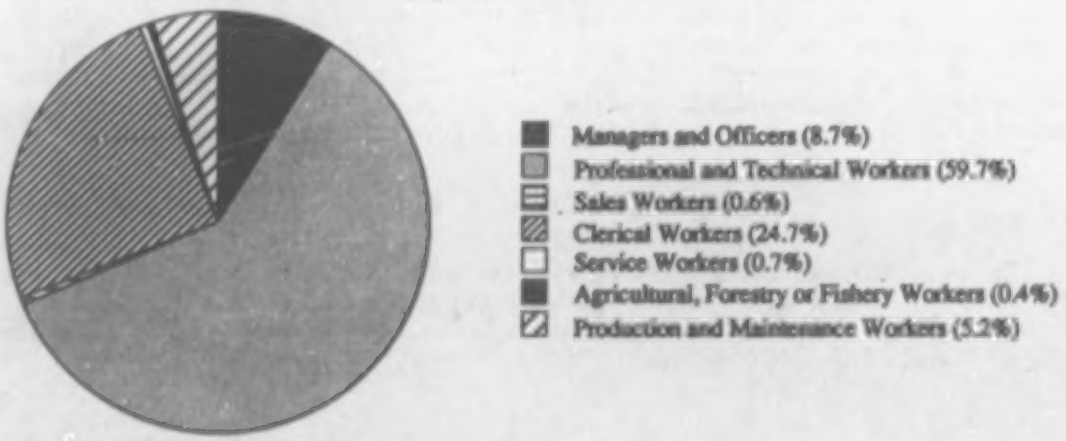
Occupation	Estimated Employment[1/]	Relative Error %	Percent Distribution[1/]
Service Workers	170	NA	0.7
Service Supervisors	20	18.8	0.1
Food and Beverage Preparation and Service Workers	20	24.4	0.1
Janitors and Cleaners	110	23.9	0.4
Other Service Workers	20	NA	0.1
Agricultural, Forestry or Fishery Workers	120	NA	0.4
Production and Maintenance Workers	1,310	NA	5.2
Mechanic and Repairer Supervisors	50	28.7	0.2
Maintenance Repairers, General Utility	80	11.4	0.3
Other Mechanics, Installers and Repairers	30	NA	0.1
Other Construction and Extractive Workers	90	NA	0.4
Other Precision Workers	60	NA	0.2
Other Hand Workers	210	NA	0.8
Other Transportation and Material Moving Equipment Operators	90	NA	0.4
Other Laborers	700	NA	2.8

[1/] Details may not add to totals due to rounding or data suppression.

TABLE 23
THE FIVE LARGEST SPECIFIC OCCUPATIONS

Occupation	Estimated Employment	Percent Of Total Employment
Accountants and Auditors	3,520	13.9
Drafters	2,070	8.2
Secretaries	1,850	7.3
Bookkeeping, Accounting and Auditing Clerks	1,170	4.6
Surveying and Mapping Scientists	1,730	6.8

FIGURE 26
PERCENT DISTRIBUTION OF EMPLOYMENT BY MAJOR OCCUPATIONAL CATEGORY


Managers and Officers (8.7%)
Professional and Technical Workers (59.7%)
Sales Workers (0.6%)
Clerical Workers (24.7%)
Service Workers (0.7%)
Agricultural, Forestry or Fishery Workers (0.4%)
Production and Maintenance Workers (5.2%)

Methodology

A questionnaire is mailed to sampled nonmanufacturing establishments in order to obtain occupational data. The total occupational employment for an industry is then estimated from the responding establishments.

Sample

The sample is drawn using procedures outlined in the OES Survey Operations Manual. Establishments are divided into different size classes by number of employees. All establishments with more than 250 employees are sampled. Establishments in each smaller size class are sampled in proportion to the employment in the size class; however, no establishment with fewer than four employees is sampled. Employment in these establishments is accounted for in the next larger size class. Each establishment is assigned a weight according to the ratio of units sampled in that size class. For example, when all units in a size class are sampled, the weight is one. When the units are sampled at a ratio of one out of four, the sampled unit is given a weight of four. The weighted establishment then represents itself and three other establishments.

Collection

Data collection began in June, 1987 and ended in March, 1988. Two follow-up mailings, personal visits, or telephone calls are made to those establishments whose responses are vital for statistical purposes, to those who have difficulty completing the questionnaire, or to those for which clarification of the response is necessary.

Estimates

Data from the questionnaires are keypunched and loaded to tape. The tape is processed using the OES Survey Processing and Management System (SPAM) programs to sort and screen the data. The estimating programs sort the data into size-class cells. The weighted employment of each occupation in each cell is then estimated individually and summed across all cells in order to produce the final occupational employment and estimate for each industry.

Error

Two types of errors, sampling and non-sampling, can affect the results of a survey. Sampling error is the difference between the estimates developed from data collected from a sample and data collected from the universe from which the sample is drawn. Sampling error is measurable and is expressed as relative error. The relative error shown in the publication is such that the chances are two out of three that the results of comparable universal data collection would not differ by more than the percentage shown. Non-sampling error may arise from faulty questionnaire design, inability to collect necessary data, inaccuracy of data collected, and ineffective processing techniques. Non-sampling error cannot be measured.

Publication

After the data file is processed through the OES estimates programs, a computer printout is received which contains the estimated employment for each occupation, the relative error of the occupational estimate, the percent distribution of the occupational employment, the number of employees reported in each occupation, and the number of establishments which report each occupation.

Industries are surveyed at the three-digit SIC level; however, published data are at the two-digit level of detail. The following exceptions are made to this format. For two-digit code 80, Health Services, data for code 806, Hospitals, is excluded. SIC 86, Membership Organization, excludes the three-digit code 866, Religious Organizations . Two-digit code 82, Educational Services, will be covered in a separate survey and is not included. These exceptions are made to provide a better grouping of industries with compatible staffing patterns.

Occupational data are not published for industries when the industry employment is less than 1,000. The estimated employment for occupations is rounded to the nearest ten. The estimated employment is put in a residual category when the estimated employment for an occupation is less than 10 or less than 0.5 percent of the total group employment, when the relative error is more than 35 percent, or when an occupation is not reported by at least four establishments. Although they are not published here, the suppressed industry and occupational data will be included in the industry/occupation matrix.

Relative error is not applicable (NA) for residual categories, occupational group totals, and total employment because it is not additive. The percent distribution is computed on the unrounded employment estimates; therefore, some occupations with the same published estimated employment may not have the same percent distribution.

Note: Occasionally the sum of the occupations will not equal the Total Employment of the Occupational Category because of rounding.

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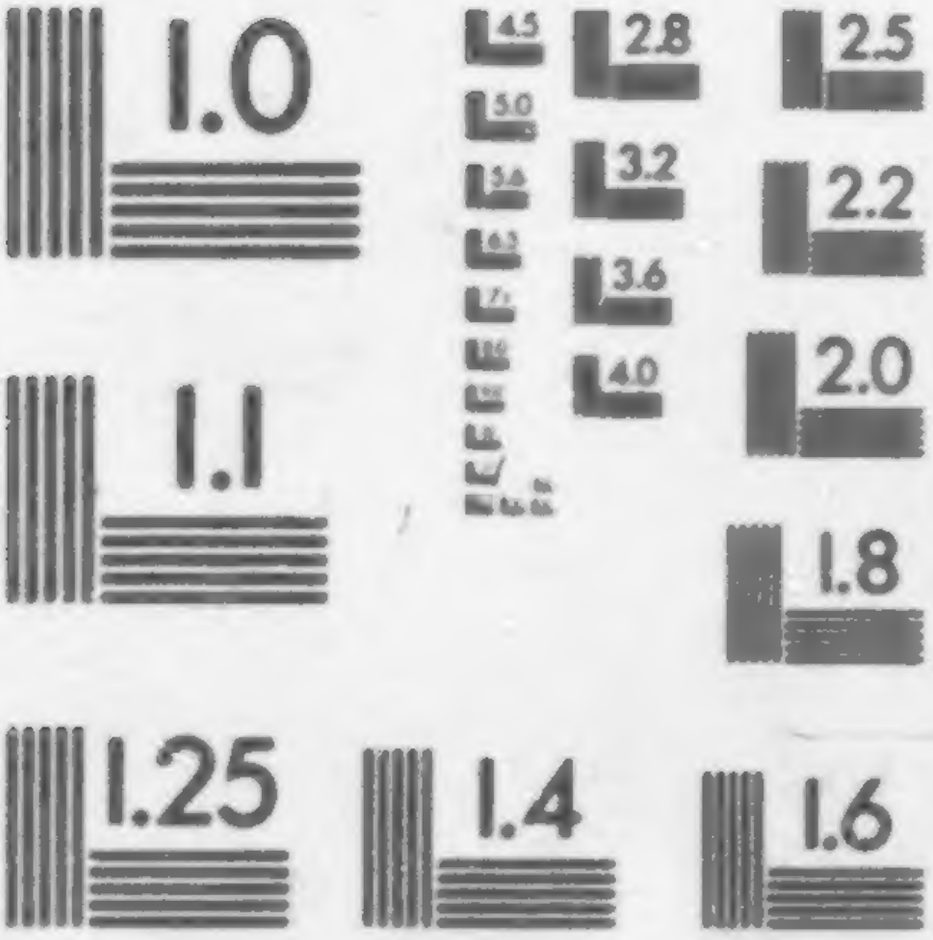
NBS - 1010a
(ANSI and ISO TEST CHART No. 2)



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